ORDER NO.ACED020381C7

C9

Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS

CX-DVP292U

Mobile DVD-Video Player with 96 kHz 24 bit D/A Converter

SPECIFICATIONS

Specifications*

General	
Power Supply	DC 12V (10.8V - 16V), Test Voltage 14.4V Negative Ground
Current Consumption	Less than 2.0A
Signal system	NTSC 1.0Vp-p 75Ω RCA pin jack
Discs played	
(1) DVD-VIDEO disc	5”(12cm)single-sided, single-layer
	5”(12cm)single-sided, double-layer
	5”(12cm)double-sided, single-layer
	5”(12cm)double-sided, double-layer
	3”(8cm)single-sided, single-layer
	3”(8cm)single-sided, double-layer
	3”(8cm)double-sided, single-layer
	3”(8cm)double-sided, double-layer
(2) Compact disc / (CD-DA, VIDEO CD, CD-ROM, CR-R, CD-RW)	5”(12cm)disc
	3”(8cm)disc
Audio output level	600Ω (2ch 2.5Vrms Max.)
Audio signal output characteristics	
(1) Frequency response	20Hz-20kHz
(2) S/N ratio	95dB (IHF-A)
(3) Wow and Flutter	Below measurable limits

Digital audio output	
Disc	**Sound recording format**
DVD	**Dolby Digital**
	DTS
	Linear PCM / (48 kHz 16/20/24 bit)
Video CD	**MPEG1**
	Linear PCM
CD	**Linear PCM**
	DTS
MP3	**MP3**
Disc	**Optical digital audio output from connector**
DVD	**Dolby Digital bitstream (1-5.1 ch)**
	DTS bitstream (1-5.1 ch) / (The analog portion is not output.)
	Linear PCM (2 ch) / (48 kHz sampling/16 bit only)
Video CD	**MPEG1 bitstream**
	Linear PCM (2ch) / (44.1 kHz sampling/ 16 bit)
CD	**Linear PCM (2ch) / (44.1 kHz sampling/ 16bit)**
	DTS bitstream (1-5.1 ch) / (The analog portion is not output.)
MP3	**Linear PCM (2ch) / (32 kHz/ 44.1 kHz/ 48 kHz sampling/16 bit)**
Dimensions (W × H × D)**	**178 × 50 × 155 (mm)**
Weight**	**1.5 kg**
*** Specifications and the design are subject to possible modification without notice due to improvements.** **** Dimensions and Weight shown are approximate.** **** Above specifications comply with EIA standards.**	

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

1. FEATURES

- Digital audio output terminal for upgrading to Dolby Digital and dts surround [Requires separately sold optical cable (CA-LRD60) and digital surround processor (CY-AC300)].

- L/R stereo analog audio outputs (RCA) for connection to existing head unit aux inputs.Video output is composite video (RCA).

- Supplied remote handles multi-function software (multi-language audio-track/ subtitle, multi-angle, multi-story, etc.), plus all basic functions.

2. REPLACEING THE FUSE

Use fuses of the same specified rating 5 amps. Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit.

3. MAINTENANCE

Your products is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvent.

4. DVD DECK ALIGNMENT

This model has no servo alignment points because microcomputer controls the servo circuit

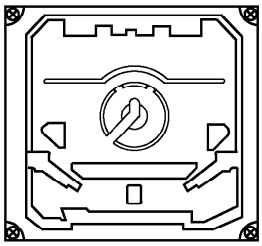
5. LASER PRODUCTS

CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.

Laser radiation from the pickup lens is safety level, but be sure the followings:

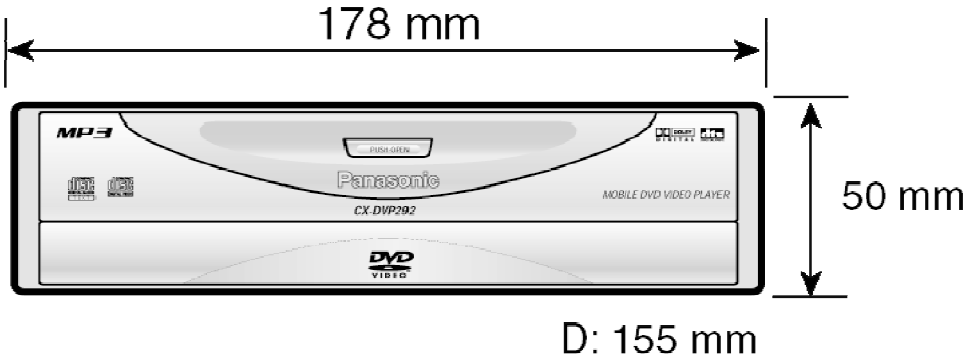
1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.



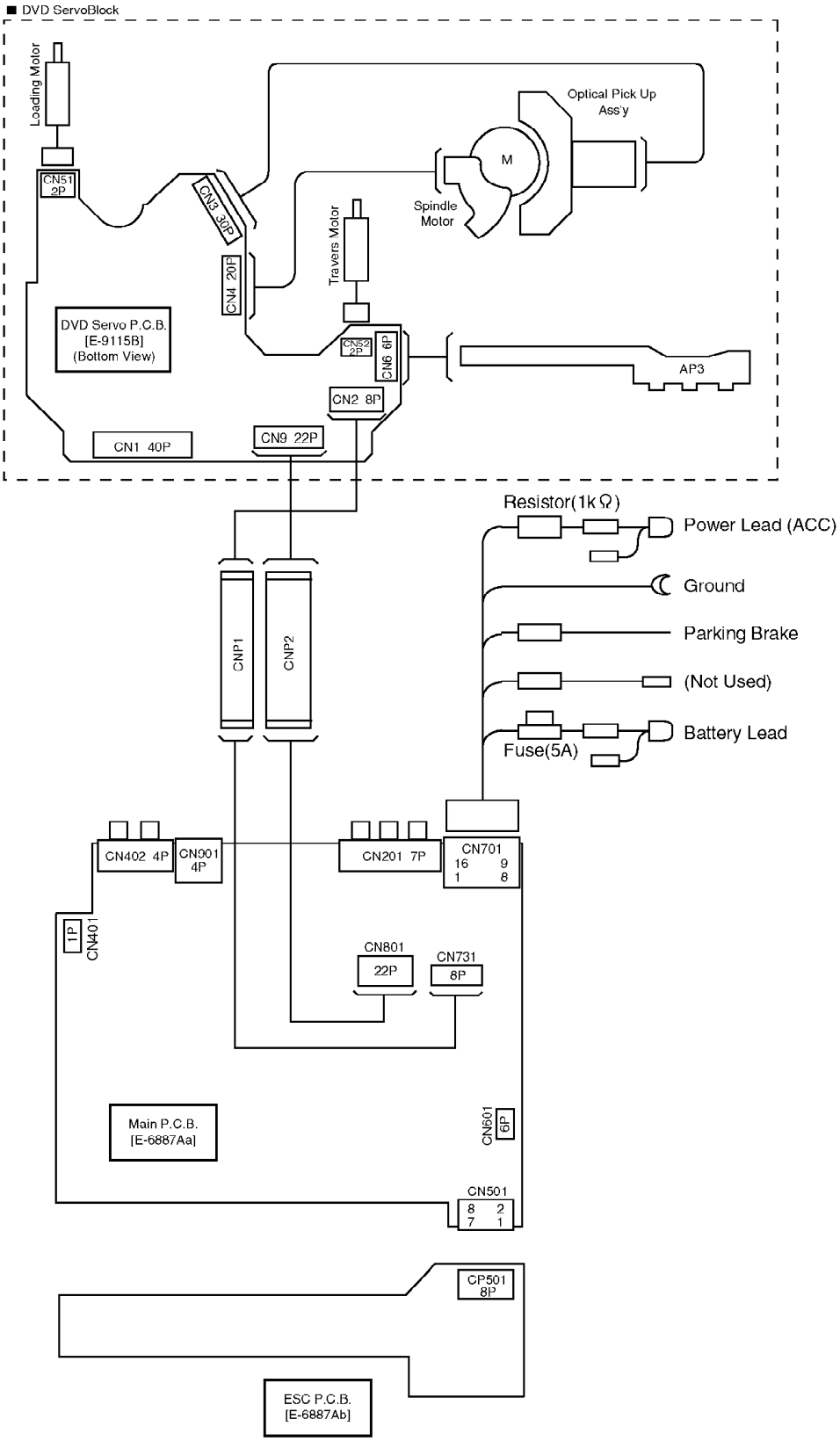
Deck Ass'y (Upper Side)

Caution
This Product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

6. DIMENSIONS



7. WIRING CONNECTION



8. TERMINALS DESCRIPTION

8.1. Main Block

IC601 : C2DBKJ000084

Pin No.	Name	Description	I/O	Vol. / (V)
1	PLL COM (NC)	-	-	-
2	PLL CLK (NC)	-	-	-
3	DVD RX (MI)	DVD deck CPU BUS data input	I	5.0
4	DVD TX (MO)	DVD deck CPU BUS data output	O	5.1
5	PLL CE (NC)	-	-	-
6	EVDD	+5V power supply	-	5.1
7	EVSS	GND	-	0
8	DISC ILL	DISC insert illumination control signal	O	0
9	EJECT ILL (NC)	-	-	-
10	REM IN	Remote controller data input	I	5.0
11	SECURITY LED (NC)	-	-	-
12	LCD DATA (NC)	-	-	-
13	LCD COM (NC)	-	-	-
14	LCD CLK (NC)	-	-	-
15	LCD CE (NC)	-	-	-
16	INV CONT (NC)	-	-	-
17	DIMMER2 (NC)	-	-	-
18	VPP	High voltage for program	-	0
19	DIMMER1 (NC)	-	-	-
20	DVD CONT	DVD deck power control signal	O	5.1
21	MAIN CONT	Main power control signal	O	5.1
22	CHC 1/2 (NC)	-	-	-

Pin No.	Name	Description	I/O	Vol. / (V)
23	ANT CONT (NC)	-	-	-
24	AMP CONT (NC)	-	-	-
25	VIDEO CONT	Video control request signal	O	5.1
26	BEEP (NC)	-	-	-
27	ILL CONT (NC)	-	-	-
28	DVD HRESET	DVD deck reset	O	5.1
29	DVD SLEEP	DVD deck standby signal	O	5.1
30	NC	-	-	-
31	RESET	System reset	I	4.9
32	SUB X1	(Connecting to GND)	I	0
33	SUB X2 (NC)	-	-	-
34	REGC	Connection pin for reg. capacitor	-	3.5
35	X2	Main system clock oscillator (16.777MHz)	I	1.6
36	X1	Main system clock oscillator (16.777MHz)	O	1.4
37	VSS	GND	-	0
38	VDD	+5V power supply	-	5.1
39	CLK OUT (NC)	-	-	-
40	AF MUTE F	AF mute signal (Front)	O	5.0
41	AF MUTE R (NC)	-	-	-
42	AF MUTE W (NC)	-	-	-
43	RSE MUTE (NC)	-	-	-
44	DB MUTE (NC)	-	-	-
45	DVD CONT1.8 (NC)	-	-	-
46	DVD CONT2.7 (NC)	-	-	-

Pin No.	Name	Description	I/O	Vol. / (V)
47	DVD CONT3.3 (NC)	-	-	-
48	NC	-	-	-
49	NC	-	-	-
50	VIDEO SEL2 (NC)	-	-	-
51	VIDEO SEL1	Video select request signal	O	0
52	DB ON/ OFF (NC)	-	-	-
53	LPF SEL (NC)	-	-	-
54	MUTE (NC)	-	-	-
55	BVDD	+5V power supply	-	5.1
56	BVSS	GND	-	0
57	DAC DZF (NC)	-	-	-
58	DAC CS	D/A converter chip select	O	5.0
59	DAC CDTI	D/A converter serial data output	O	0
60	DAC CCLK	D/A converter serial clock	O	5.0
61	DAC PD	D/A converter reset control signal	O	5.0
62	I2C DATA1 (NC)	-	-	-
63	I2C DATA2 (NC)	-	-	-
64	I2C CLK (NC)	-	-	-
65	LEVEL CONT1	Audio level control 1 signal	O	0
66	LEVEL CONT2	Audio level control 2 signal	O	5.2
67	NC	-	-	-
68	DIVER CNT (NC)	-	-	-
69	TUNER MODE (NC)	-	-	-
70	IF SEL (NC)	-	-	-

Pin No.	Name	Description	I/O	Vol. / (V)
71	AVDD	+5V power supply for A/D converter	-	5.2
72	AVSS	GND for A/D converter	-	0
73	AVREF	REF voltage for A/D converter	I	5.2
74	SD	Not used (Connecting to GND)	-	0
75	INIT A	Initial setting select A	I	5.0
76	INIT B	Initial setting select B	I	0
77	INIT C	Initial setting select C	I	0
78	PANEL SENS	Not used (Connecting to GND)	-	0
79	SIDE BRAKE SENS	Parking brake detection signal	I	0
80	STEREO	Not used (Connecting to GND)	-	0
81	ACC SEN	Accessory power detection signal	I	5.1
82	PNL OP/CL	Not used (Connecting to GND)	-	0
83	EXT MUTE	Not used (Connecting to GND)	-	0
84	ILL SENS	Not used (Connecting to GND)	-	0
85	CHG SENS	Not used (Connecting to GND)	-	0
86	CH REM DATA (NC)	-	-	-
87	CH STB (NC)	-	-	-
88	RDS CLK (NC)	-	-	-
89	RDS DATA (NC)	-	-	-
90	BATT SEN	Battery power detection signal	I	5.1
91	EP CS (NC)	-	-	-
92	DOLBY REQ (NC)	-	-	-
93	DVD EJECT	DVD eject detection signal	I	5.4

Pin No.	Name	Description	I/O	Vol. / (V)
94	CH DATA (NC)	-	-	-
95	NC	-	-	-
96	CH CLK (NC)	-	-	-
97	EP SI (MI)		O	0
98	EP SO (MO)		O	0
99	EP CLK (NC)	-	-	-
100	PLL DATA (NC)	-	-	-

8.2. DVD Servo Block

IC301 : MN102H60GAC

Pin No.	Port	Description	I/O	(V)
1	WAITODC	CPU Bus Control	I	3.4
2	NRE	CPU Bus Control	O	0
3	NWEL	CPU Bus Control	O	3.2
4	(NC)	-	-	-
5	NCSEXTROM	Flash ROM Chip Select	O	1.4
6	NSRAMCS	SRAM Chip Select	O	2.6
7	NCS	ODC Chip Select	O	3.3
8	NMPEGCS	MPEG Decoder Chip Select	O	3.4
9	NMPEGRST	MPEG Decoder Reset	O	3.4
10	NCSDAC	DAC Chip Select	O	3.4
11	(NC)	-	-	-
12	P57/ XWORD	Low Fix	I	0
13	A0	CPU Address Bus	O	0.7
14	A1	CPU Address Bus	O	1.5
15	A2	CPU Address Bus	O	1.7
16	A3	CPU Address Bus	O	1.8
17	33VDD	+3.3V Power Supply	O	3.4
18	(NC)	-	-	-
19	VSS	GND	-	0
20	XI/PS1	Self Test Mode	I	3.3
21	(NC)	-	-	-
22	33VDD	+3.3V Power Supply	-	3.4

Pin No.	Port	Description	I/O	(V)
23	OSCI	Clock	I	0
24	(NC)	-	-	-
25	MODE	Mode Selector	I	0
26	A4	CPU Address Bus	O	1.6
27	A5	CPU Address Bus	O	2.3
28	A6	CPU Address Bus	O	0.7
29	A7	CPU Address Bus	O	2.6
30	A8	CPU Address Bus	O	0.9
31	A9	CPU Address Bus	O	2.4
32	A10	CPU Address Bus	O	0.7
33	A11	CPU Address Bus	O	2.4
34	33VDD	+3.3V power Supply	-	3.4
35	A12	CPU Address Bus	O	0.9
36	A13	CPU Address Bus	O	0.9
37	A14	CPU Address Bus	O	0.8
38	A15	CPU Address Bus	O	0.6
39	A16	CPU Address Bus	O	0.6
40	A17	CPU Address Bus	O	0
41	A18	Reserve for DVD3.5 / CPU Address Bus	O	0.4
42	A19	Reserve for DVD3.6 / CPU Address Bus	O	2.4
43	VREFN	VREFN	-	0
44	INNERSW	Inner Switch	I	3.3
45	LOADING	Loading Driver Command Value	O	1.7
46	P0 (OUTR)	Photo SW	O	0
47	S4 (XFEPRST)	FEP Reset	O	3.3
48	NGENCS	Serial Bus Chip Select Clock Generator	O	3.0
49	NCE2SRAM	SRAM Standby Control	O	3.0
50	CKIO	MPEG DecoderCKIO	O	0
51	SI DATA	Serial Bus SI Data	I	2.9
52	SO DATA	Serial Bus SO Data	O	3.2
53	GENCK	Serial I/F Clock Generator SCK	O	3.0
54	VREFP	VREFP	-	3.4
55	STANDBY	Motor Driver Mute	O	3.2
56	GENDATA	Serial I/F Clock Generator SO	O	3.0
57	ODCSEL	ODC IF Select	O	3.3

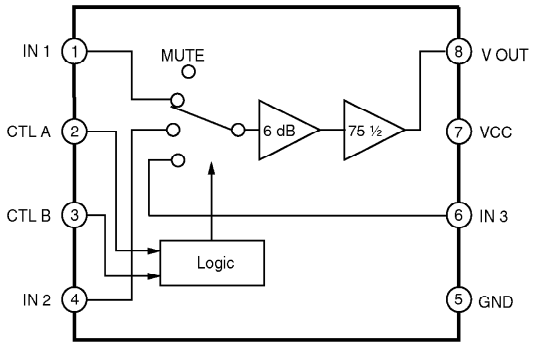
Pin No.	Port	Description	I/O	(V)
58	DMUTE	Audio Mute (H: ON, L : OFF)	O	0
59	LODSWON	Photo Enable	O	0
60	LODSW	LOADING SW	I	3.4
61	VSS	GND	-	0
62	P2 (IN-C)	Photo SW (H: Close)	I	0
63	P1 (IN-R)	Photo SW (H: Close)	I	0
64	P3 (IN-L)	Photo SW (H: Close)	I	0
65	P4 (OUT-L)	Photo SW (H: Close)	I	0.7
66	33VDD	+3.3V Power Supply	-	3.4
67	(NC)	-	-	-
68	S3 (XFEPCS)	FEP Serial Bus Chip Select	O	3.4
69	(NC)	-	-	-
70	S0 (SCK)	FEP, DAC Serial Interface	O	3.4
71	(NC)	-	-	-
72	S1 (SO)	ADSC FEP EEPROM Serial Interface	O	3.4
73	PLL UP0	Pull-up	I	3.3
74	PLL UP1	Pull-up	O	3.3
75	NMI	High Fix	I	3.4
76	NINTHOST	ATAPI Interrupt	I	0
77	NINTODC	ODC Interrupt	I	3.2
78	NINTADSC	ADSC Interrupt	I	3.3
79	NINTMPEG	AV Decoder Interrupt	I	3.3
80	HSLEEP	Power-off Interrupt	I	3.0
81	ADSEP	(High Level Fixed)	-	3.4
82	RST	System Reset	I	3.3
83	33VDD	+3.3V Power Supply	-	3.4
84	D0	CPU Data Bus	I/O	1.1
85	D1	CPU Data Bus	I/O	0.9
86	D2	CPU Data Bus	I/O	1.4
87	D3	CPU Data Bus	I/O	1.1
88	D4	CPU Data Bus	I/O	1.5
89	D5	CPU Data Bus	I/O	0.9
90	D6	CPU Data Bus	I/O	1.4
91	D7	CPU Data Bus	I/O	1.3
92	VSS	GND	-	0
93	D8	CPU Data Bus	I/O	1.6
94	D9	CPU Data Bus	I/O	1.5
95	D10	CPU Data Bus	I/O	1.8
96	D11	CPU Data Bus	I/O	1.0
97	D12	CPU Data Bus	I/O	1.8

Pin No.	Port	Description	I/O	(V)
98	D13	CPU Data Bus	I/O	1.8
99	D14	CPU Data Bus	I/O	2.0
100	D15	CPU Data Bus	I/O	1.9

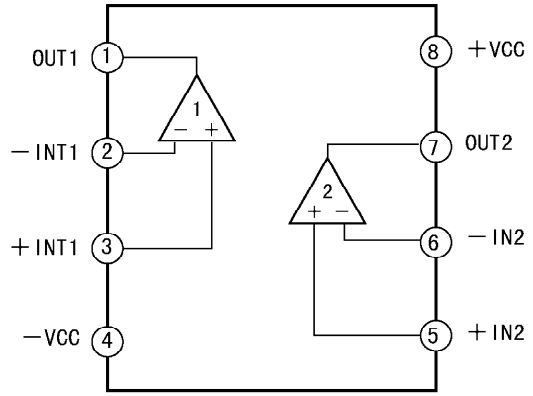
9. PACKAGE AND IC BLOCK DIAGRAM

9.1. Main/ Connector Block

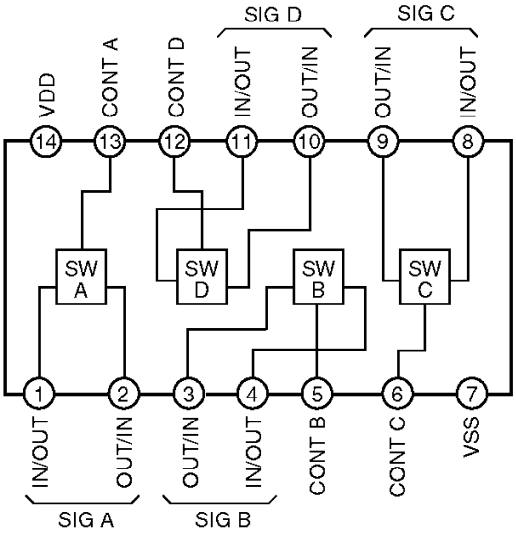
IC101 : C1AB00000003



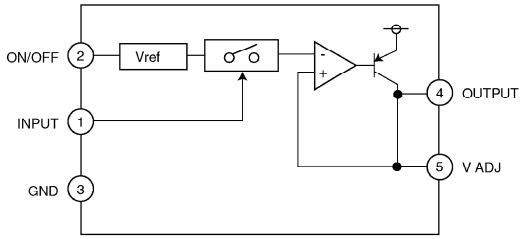
IC201 : C0ABBB000105



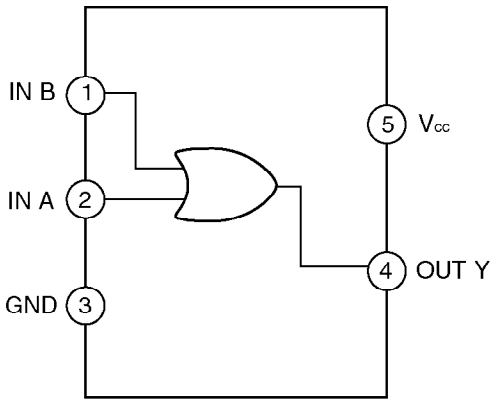
IC202 : C0JBAS000008



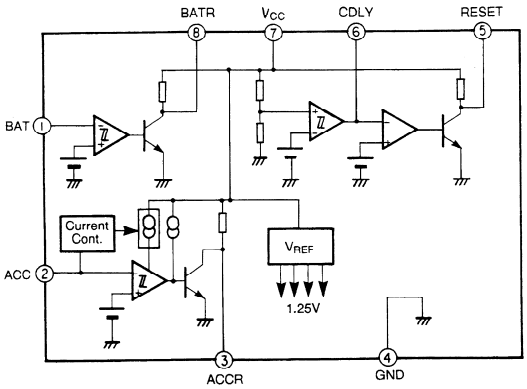
IC702 : C0CAAYG00005



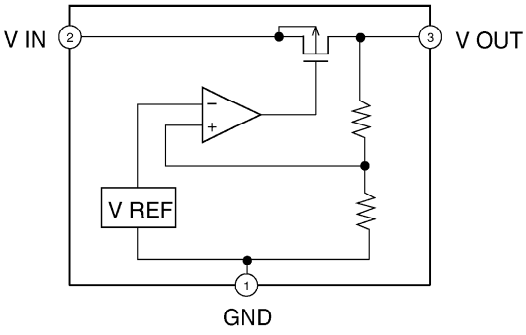
IC401,901 : YEAMT7ST32UL



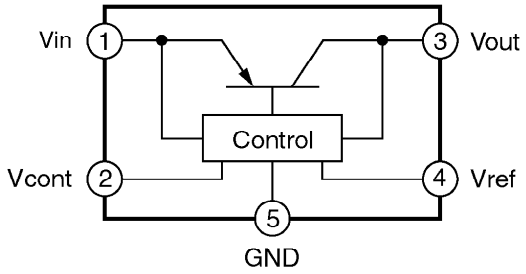
IC701 : AN8065SE1



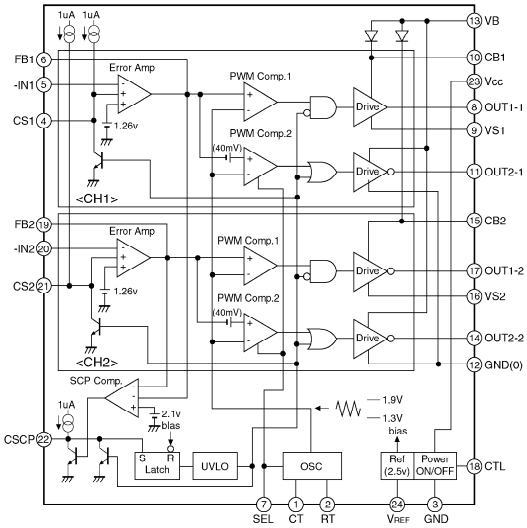
IC851 : YEAM7200U33T



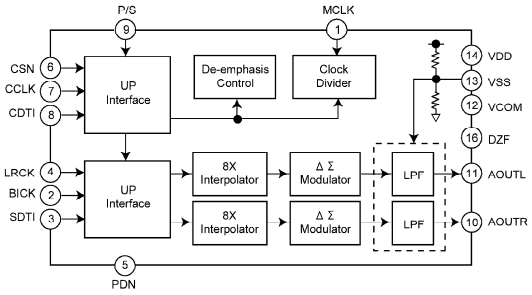
IC734 : C0DBFFG00004



IC731 : C0DBAZD00006

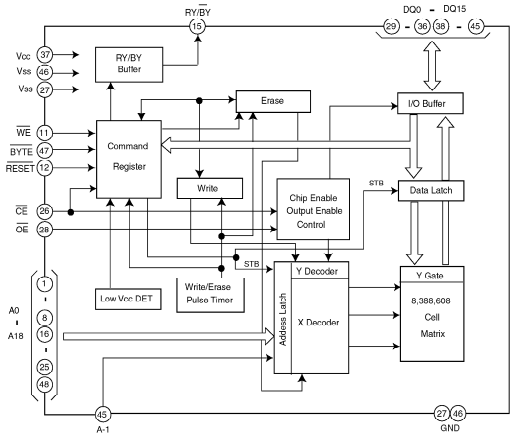


IC801 : C0FBBK000019



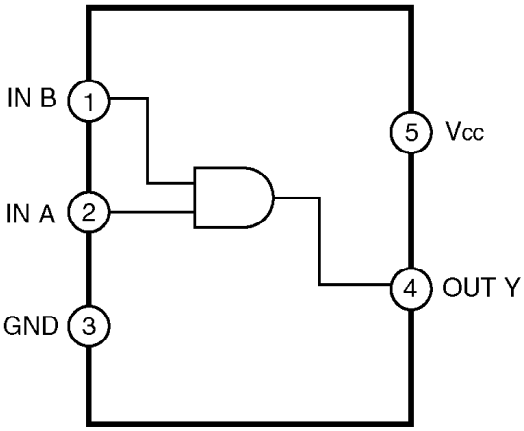
9.2. DVD Servo Block

IC303 : C3FBLG000012



IC101 : AN8703FH-V

IC204 : YEAMT7ST08UL



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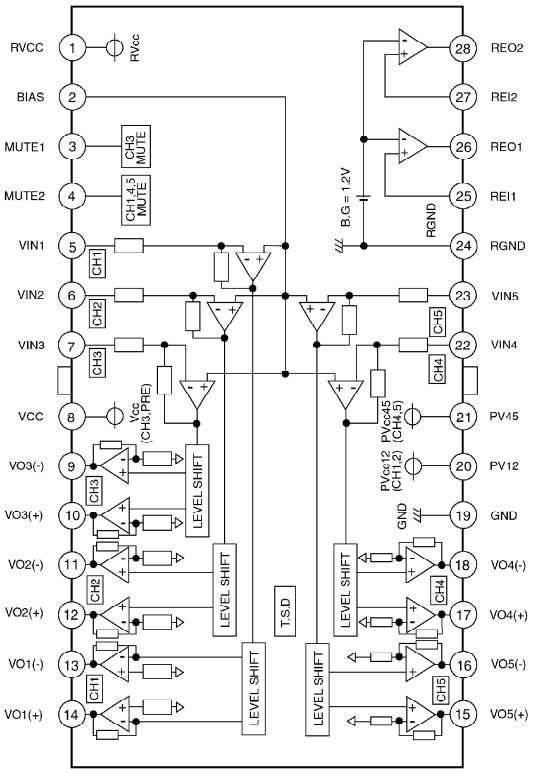

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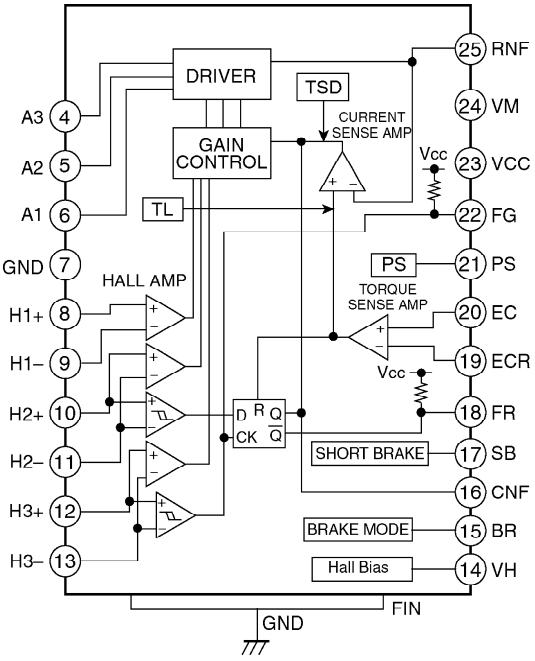
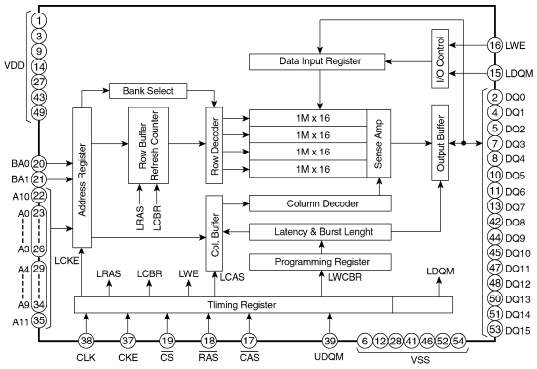
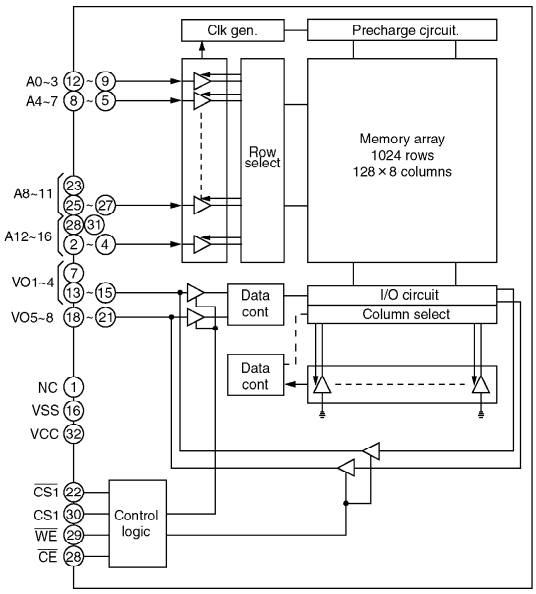


IC502 : C3ABPG000102



IC507 : C3BBHC000246



10. REPLACEMENT PARTS LIST

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of**

assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
[E-6887A] Main Block			
IC's and TRANSISTORs			
IC101	C1AB00000003	IC	
IC201	C0ABBB000105	IC	
IC202	C0JBAS000008	IC	
IC401	YEAMT7ST32UL	IC	
IC601	C2DBKJ000084	IC	
IC701	AN8065SE1	IC	
IC702	C0CAAYG00005	IC	
IC731	C0DBAZD00006	IC	
IC734	C0DBFFG00004	IC	
IC801	C0FBBK000019	IC	
IC851	YEAM7200U33T	IC	
IC901	YEAMT7ST32UL	IC	
Q251	B1GBHBEA0004	Transistor	
Q252	YEANA114TK	Transistor	
Q253	B1GDCFJJ0002	Transistor	
Q254	YEANC114YKX	Transistor	
Q261	B1GBCFNN0004	Transistor	
Q262	B1GBCFNN0004	Transistor	
Q351	B1GBHBEA0004	Transistor	
Q512	B1GBCFNL0001	Transistor	
Q701	B1BBAC000007	Transistor	
Q702	YEANHQ1F3PT1	Transistor	
Q703	YEANC114YKX	Transistor	
Q704	B1BBAC000007	Transistor	
Q705	YEANHQ1F3PT1	Transistor	
Q706	YEANC114YKX	Transistor	
Q707	B1ABCF000042	Transistor	
Q733	B1DFDG000006	Transistor	
Q734	B1ABCF000042	Transistor	
Q736	B1DFDG000006	Transistor	
Q801	B1GBCFNN0004	Transistor	
Q802	B1GBCFNN0004	Transistor	
DIODEs			
D211	MA721TX	Diode	
D251	B0ADCJ000020	Diode	
D401	MA8056LMHTX	Diode	
D501	MA721TX	Diode	
D502	MA8056LMHTX	Diode	
D513	LNJ306G5TUWQ	LED	
D601	MA721TX	Diode	
D701	YEADDAM3MA47	Diode	
D702	MA721TX	Diode	
D703	YEADRD56M3T1	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D704	MA721TX	Diode	
D705	YEADRD56M2T1	Diode	
D706	MA3X152K0L	Diode	
D731	B0ADCJ000020	Diode	
D732	B0JCQD000001	Diode	
D733	B0JCQD000001	Diode	
CAPACITORs			
C102	F1J1H331A025	Ceramic, 330PF 50WV	
C103	YECUS1H680JM	Ceramic, 68PF 50WV	
C104	F1J1H121A025	Ceramic, 120PF 50WV	
C105	ECEA1HKS010I	Electrolytic, 1 μ F 50WV	
C106	ECEA0JKS331I	Electrolytic, 330 μ F 6.3WV	
C107	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C108	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C201	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C204	YECUS1H270JC	Ceramic, 27PF 50WV	
C205	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C211	ECEA0JKS331I	Electrolytic, 330 μ F 6.3WV	
C221	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C222	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C251	ECEA1HKS010I	Electrolytic, 1 μ F 50WV	
C301	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C304	YECUS1H270JC	Ceramic, 27PF 50WV	
C305	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C311	ECEA0JKS331I	Electrolytic, 330 μ F 6.3WV	
C401	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C601	EECS0HD473H	Electrolytic, 0.047 μ F 5.5WV	
C602	ECEA0JKS331I	Electrolytic, 330 μ F 6.3WV	
C604	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C605	ECEA1HKS010I	Electrolytic, 1 μ F 50WV	
C606	F1J1H120A034	Ceramic, 12PF 50WV	
C607	F1J1H180A034	Ceramic, 18PF 50WV	
C608	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C609	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C610	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C611	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C612	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C691	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C701	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C702	ECA1CDT222U	Electrolytic, 2200 μ F 16WV	
C703	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C704	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C705	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C706	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C707	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	
C708	ECEA1HKS4R7I	Electrolytic, 4.7 μ F 50WV	
C709	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C710	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C711	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C712	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C713	ECEA1CKS470I	Electrolytic, 47 μ F 16WV	
C714	ECEA0JKS470I	Electrolytic, 47 μ F 6.3WV	
C715	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C716	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	
C717	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C718	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C719	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	
C720	YECSV1CF105R	Tantalum, 1 μ F 16WV	
C721	F1J1C184A006	Ceramic, 0.18 μ F 16WV	
C722	YECUS1C224KX	Ceramic, 0.22 μ F 16WV	
C723	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C724	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C726	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C727	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C731	EEAFC1A820H	Electrolytic, 82 μ F 10WV	
C735	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C737	EEUFC1C561B	Electrolytic, 560 μ F 16WV	
C738	ECEA0JKS331I	Electrolytic, 330 μ F 6.3WV	
C739	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C740	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C741	YECUS1H471JM	Ceramic, 470PF 50WV	
C742	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C743	YECUS1E223KX	Ceramic, 0.022 μ F 25WV	
C744	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C745	ECEA1HKS4R7I	Electrolytic, 4.7 μ F 50WV	
C747	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C748	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C749	YECUS1E223KX	Ceramic, 0.022 μ F 25WV	
C750	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C751	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C752	ECEA0JKS220I	Electrolytic, 22 μ F 6.3WV	
C753	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C754	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C755	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C756	ECEA0JKS331I	Electrolytic, 330 μ F 6.3WV	
C758	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C763	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C764	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C765	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C766	YECSW1C105MU	Tantalum, 1 μ F 16WV	
C767	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C769	ECEA1CKS101I	Electrolytic, 100 μ F 16WV	
C770	YECUS1E333KX	Ceramic, 0.033 μ F 25WV	
C780	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C781	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C782	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C783	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C784	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C785	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C786	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C789	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C790	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C801	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
C802	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C803	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C851	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C852	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C853	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C854	ECEA0JKS220I	Electrolytic, 22 μ F 6.3WV	
C901	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C902	ECEA0JKS101I	Electrolytic, 100 μ F 6.3WV	
RESISTORs			
C728	ERJ6ENF6801V	Chip, 6.8k Ω 1/10W	
J1	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J2	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J101	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J102	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J103	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J104	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J701	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J702	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
L102	ERJ6GEYJ100	Chip, 10 Ω 1/10W	
L103	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L104	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R101	ERJ6GEYJ100	Chip, 10 Ω 1/10W	
R103	ERJ6GEYJ820	Chip, 82 Ω 1/10W	
R104	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R111	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R112	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R201	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R202	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R203	ERJ6GEYJ912	Chip, 9.1k Ω 1/10W	
R204	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R205	ERJ6GEYJ561	Chip, 560 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R206	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R211	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R212	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R213	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R251	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R252	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R261	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R262	ERJ6GEYJ681	Chip, 680 Ω 1/10W	
R263	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R264	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R301	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R302	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R303	ERJ6GEYJ912	Chip, 9.1k Ω 1/10W	
R304	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R305	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R306	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R311	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R312	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R313	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R361	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R362	ERJ6GEYJ681	Chip, 680 Ω 1/10W	
R401	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R402	ERJ6GEYJ184	Chip, 180k Ω 1/10W	
R403	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R404	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R405	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R501	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R502	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R504	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R506	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R512	ERJ6GEYJ681	Chip, 680 Ω 1/10W	
R601	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R603	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R605	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R607	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R608	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R612	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R613	ERJ6GEYJ275V	Chip, 2.7M Ω 1/10W	
R614	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R616	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R620	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R621	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R622	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R623	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R625	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R626	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R627	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R628	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R629	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R631	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R632	ERJ6GEYJ102	Chip, 1k Ω 1/10W	

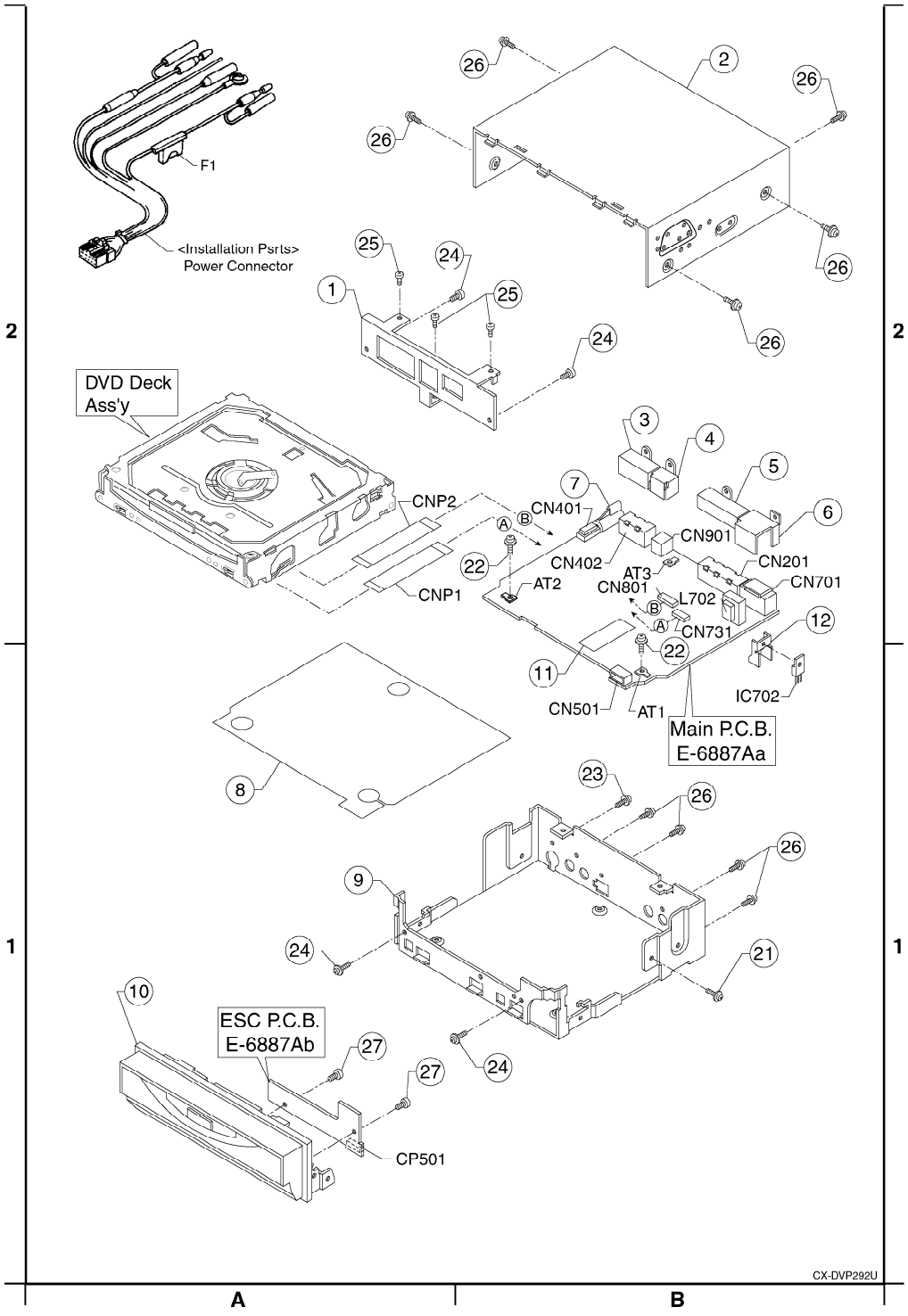
Ref. No.	Part No.	Part Name & Description	Remarks
R633	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R635	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R637	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R638	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R701	ERJ6GEYJ224	Chip, 220k Ω 1/10W	
R702	ERJ6GEYJ154	Chip, 150k Ω 1/10W	
R703	ERJ8GEYJ4R7V	Chip, 4.7 Ω 1/8W	
R704	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R706	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R707	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R708	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R709	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R710	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R715	ERJ6ENF2002	Chip, 20k Ω 1/10W	
R716	ERJ6ENF4701	Chip, 4.7k Ω 1/10W	
R721	ERJ6GEYJ363V	Chip, 36k Ω 1/10W	
R722	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R723	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R735	ERJ6ENF1002	Chip, 10k Ω 1/10W	
R737	ERJ6ENF3301	Chip, 3.3k Ω 1/10W	
R738	ERJ6ENF1002	Chip, 10k Ω 1/10W	
R739	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R740	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R741	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R742	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R744	ERJ6ENF5601	Chip, 5.6k Ω 1/10W	
R745	ERJ6ENF3301	Chip, 3.3k Ω 1/10W	
R747	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R753	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R801	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R802	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R803	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R804	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R808	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R809	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R810	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R811	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R812	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R814	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R851	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R852	ERJ6GEYJ222	Chip, 2.2k Ω 1/10W	
R853	ERJ6GEYJ332	Chip, 3.3k Ω 1/10W	
R854	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R855	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R856	ERJ6GEYJ222	Chip, 2.2k Ω 1/10W	
R857	ERJ6GEYJ332	Chip, 3.3k Ω 1/10W	
R858	ERJ6GEYJ222	Chip, 2.2k Ω 1/10W	
R859	ERJ6GEYJ332	Chip, 3.3k Ω 1/10W	
R901	ERJ6GEYJ270	Chip, 27 Ω 1/10W	
R902	ERJ6GEYJ220	Chip, 22 Ω 1/10W	
R903	ERJ6GEYJ391	Chip, 390 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
CONNECTORs			
CN201	K2HA306B0063	Jack	
CN401	YEAE02175	Connector, 1P jack AUX	
CN402	YEAE012479	Connector	
CN501	K1KA08B00189	Connector, 8P	
CN601	YEAE012795	Connector, 6P	
CN701	YEAE012748	Connector, 16P	
CN731	YEAE5227108	Connector, 8P	
CN801	K1MN22B00048	Connector, 22P	
CN901	K1CB104B0009	Connector, 4P	
CP501	YEAETKCF08XY	Connector, 8P	
SWITCHEs			
SW511	K0H1BA000285	Switch	
SW512	K0H1BA000285	Switch	
CRYSTAL			
XL601	H0J167500003	Crystal OSC	
CERAMIC FILTERs			
FB731	J0JKC0000002	Noise Filter	
FB732	J0JKC0000002	Noise Filter	
FB733	J0JKC0000002	Noise Filter	
FB734	J0JKC0000002	Noise Filter	
COILs			
FB101	YELTBLM21P3S	Coil	
FB701	YELTBLM2B601	Coil	
FB702	YELTBLM2B601	Coil	
FB703	YELTBLM21P3S	Coil	
FB735	YELTBLM21P3S	Coil	
FB737	YELTBLM21P3S	Coil	
FB738	YELTBLM21P3S	Coil	
FB739	YELTBLM21P3S	Coil	
FB740	YELTBLM21P3S	Coil	
FB801	YELTBLM21P3S	Coil	
FB901	YELTBLM21P3S	Coil	
L101	YELT03N2R2KT	Coil	
L601	YELT03N330JT	Coil	
L602	YELT03N101JT	Coil	
L603	YELT03N101JT	Coil	
L604	YELT03N101JT	Coil	
L605	YELT03N101JT	Coil	
L701	YELTBL01R1AT	Coil	
L702	YETQ020F091	Coil	
L731	ELC10B220	Coil	

Ref. No.	Part No.	Part Name & Description	Remarks
L732	YELT03N100KT	Coil	
L733	G1C180MA0023	Coil	
L734	G1C180MA0023	Coil	
L851	YELT03N101JT	Coil	
L852	YELT03N220JT	Coil	
L853	G1CYYYZ00003	Coil	
L901	YELT03N101JT	Coil	
THERMISTOR			
PH701	YERT7AR4R7MT	Thermistor	
PRINTINGS			
	YEFM283804A	Operating Instructions	
INSTALLATION PARTS			
	YEAJ02836	Power Connector	
	CR2025/1F	Lithium Battery	
	YEFG021010A	L-Shaped Bracket	
	YEFG021010A	L-Shaped Bracket	
	YEFX9992510	Remote Control Unit	
	YEFX9991540	Remote Control Signal Receiver	
	YEFX007668	Cord Clamp	
	YEFX9991523	Double side Tape	
	YEP9FZ3053	Screws Kit	
	YEP9FZ2888	Clamp Connector	
MISCELLANEOUS			
F1	YEAF02002	Fuse, 5A	⚠
AT1	K4ZZ01000048	Terminal	
AT2	K4ZZ01000048	Terminal	
AT3	K4ZZ01000048	Terminal	
CNP1	K9ZZ00000951	Connector, 8 P	
CNP2	K9ZZ00000952	Connector, 22P	
1	YEFX0215842	Rear Bracket, Deck	
2	YEFA031809	Upper Cover	
3	YEFX0215189	Bracket, CN402	
4	YEFX0214896	Bracket, Optical Cable Connector (CN901)	
5	YEFX0215188	Bracket, CN201	
6	YEFX0215187	Bracket, Power Connector (CN701)	
7	YEFX9992511A	Guide, Remote control Jack	
8	YEFV012163	Insulator	
9	YEFA011985	Chassis	
10	YEFC027451	Escutcheon Ass'y	
11	YEFV012192	Insulator, L734	
12	YEFX0215191	Bracket, Regurator (IC702)	
21	YEJS06092	Screw, 3mm * 10mm	
22	YEJT03133	Tapping Screw, 2.6mm * 6mm	
23	YEJT03162	Tapping Screw	

Ref. No.	Part No.	Part Name & Description	Remarks
24	YEJT03131	Tapping Screw, 2.6 * 5mm	
25	YEJT03195	Tapping Screw	
26	XTB3+6FFZ	Tapping Screw, 3mm * 6mm	
27	XTB2+6GFX	Tapping Screw, 2mm * 6mm	

11. EXPLODED VIEW (Unit)



12. DVD PLAYER PARTS

Note:

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ ; mark have special characteristics important for safety. / When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a load map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be availability is dependent on the type of assembly, and in accrdance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

Ref. No.	Part No.	Part Name & Description	Remarks
[E-9115B] DVD Servo Block			
IC's and TRANSISTORs			
IC101	AN8703FH-V	IC	
IC201	MNZS28EGAUC	IC	
IC202	MN13821JP	IC	
IC204	YEAMT7ST08UL	IC	
IC301	MN102H60GAC	IC	
IC303	C3FBLG000012	IC	
IC401	C0GBY0000012	IC	
IC402	C0GBH0000006	IC	
IC501	MN677533MPUC	IC	
IC502	C3ABPG000102	IC	
IC503	C1AB00001319	IC	
IC507	C3BBHC000246	IC	
Q101	2SB766ATX	Transistor	
Q102	B1GBCFNN0001	Transistor	
Q103	B1GDCFNN0001	Transistor	
Q104	2SB766ATX	Transistor	
Q401	B3HB00000012	Transistor	
Q402	B3HB00000012	Transistor	
Q403	B3HB00000012	Transistor	
Q404	B1GBGEEA0001	Transistor	
Q405	B1GBCFNN0001	Transistor	

Ref. No.	Part No.	Part Name & Description	Remarks
Q406	B3HB00000012	Transistor	
Q407	B3HB00000012	Transistor	
DIODEs			
D401	MA721TX	Diode	
D501	MA721TX	Diode	
CAPACITORs			
C101	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C102	YECSW0J476MS	Tantalum, 47 μ F 6.3WV	
C103	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C104	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C105	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C106	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C107	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C108	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C109	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C110	F1G1C103A033	Ceramic, 0.01 μ F 16WV	
C111	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C112	F1G1H101A410	Ceramic, 100PF 50WV	
C113	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C114	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C115	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C116	F1G1H561A401	Ceramic, 560PF 50WV	
C117	F1G1H561A401	Ceramic, 560PF 50WV	
C118	F1H1C473A005	Ceramic, 0.047 μ F 16WV	
C119	F1H1E273A011	Ceramic, 0.027 μ F 25WV	
C120	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C121	F1G1H561A401	Ceramic, 560PF 50WV	
C122	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C123	F1G1H102A401	Ceramic, 0.001 μ F 50WV	
C124	F1G1H6R0A037	Ceramic, 6PF 50WV	
C125	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C126	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C127	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C128	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C129	YECSW0J476MS	Tantalum, 47 μ F 6.3WV	
C130	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C201	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C202	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C203	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C204	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C205	F1G1A104A001	Ceramic, 0.1 μ F 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C206	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C207	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C208	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C209	F1G1C103A033	Ceramic, 0.01 μ F 16WV	
C210	F1G1C103A033	Ceramic, 0.01 μ F 16WV	
C211	F1G1H120A408	Ceramic, 12PF 50WV	
C212	F1G1H120A408	Ceramic, 12PF 50WV	
C213	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C214	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C215	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C216	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C217	F1G1C103A033	Ceramic, 0.01 μ F 16WV	
C218	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C219	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C220	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C221	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C222	F1G1C103A033	Ceramic, 0.01 μ F 16WV	
C223	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C224	F1G1C223A033	Ceramic, 0.022 μ F 16WV	
C226	F1G1H470A058	Ceramic, 47PF 50WV	
C227	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C228	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C229	F1G1H102A401	Ceramic, 0.001 μ F 50WV	
C230	YECUZ1H562KX	Ceramic, 0.0056 μ F 50WV	
C231	F1G1H102A401	Ceramic, 0.001 μ F 50WV	
C232	F1G1H102A401	Ceramic, 0.001 μ F 50WV	
C233	F1G1H102A401	Ceramic, 0.001 μ F 50WV	
C234	F1G1H222A401	Ceramic, 0.0022 μ F 50WV	
C235	F1G1H471A401	Ceramic, 470PF 50WV	
C236	F1G1H561A401	Ceramic, 560PF 50WV	
C237	F1G1H561A401	Ceramic, 560PF 50WV	
C238	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C239	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C240	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C241	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C242	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C243	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C244	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C245	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C246	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C301	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C302	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C303	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C304	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C305	F1G1A104A001	Ceramic, 0.1 μ F 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C306	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C308	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C401	F1J1C1050013	Ceramic, 1 μ F 16WV	
C402	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C403	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C404	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C405	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C406	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C407	F1G1A104A001	Ceramic, 0.1 μ F 6.3WV	
C408	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C409	F1H0J1050010	Ceramic, 1 μ F 10WV	
C410	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C411	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C412	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C413	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C501	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C502	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C503	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C504	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C505	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C506	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C507	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C508	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C509	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C511	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C512	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C513	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C514	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C515	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C516	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C517	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C518	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C519	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C520	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C521	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C522	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C524	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C525	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C526	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C527	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C528	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C529	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C530	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C531	F1G1A104A001	Ceramic, 0.1 μ F 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C532	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C533	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C534	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C535	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C536	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C537	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C538	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C539	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C540	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C541	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C542	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C543	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C544	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C545	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C546	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C547	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C548	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C549	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C550	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C551	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C552	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C553	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C554	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C555	F1G1H102A401	Ceramic, 0.001 μ F 50WV	
C556	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C557	F1G1H102A401	Ceramic, 0.001 μ F 50WV	
C558	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C560	F1G1H102A401	Ceramic, 0.001 μ F 50WV	
C561	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C562	F1G1H102A401	Ceramic, 0.001 μ F 50WV	
C563	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C564	F1H0J1050010	Ceramic, 1 μ F 6.3WV	
C565	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C566	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C567	F1G1H560A016	Ceramic, 56PF 50WV	
C568	F1G1H1R0A038	Ceramic, 1PF 50WV	
C570	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C571	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C572	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C573	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
C574	F1K0J1060015	Ceramic, 10 μ F 6.3WV	
RESISTORs			
L504	ERJ2GE0R00X	Chip, 0 Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
L505	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
L506	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
L508	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
L509	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
L510	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
L511	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
L512	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
L519	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
L521	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
L524	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
L525	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
R101	ERJ12YJ200H	Chip, 20 Ω 1/2W	
R102	ERJ2GEJ2R2X	Chip, 2.2 Ω 1/16W	
R103	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R105	ERJ3RBD243V	Chip, 24k Ω 1/16W	
R106	ERJ2GEJ392X	Chip, 3.9k Ω 1/16W	
R107	ERJ2GEJ123X	Chip, 12k Ω 1/16W	
R108	ERJ2GEJ123X	Chip, 12k Ω 1/16W	
R109	ERJ2GEJ183X	Chip, 18k Ω 1/16W	
R110	ERJ2GEJ202X	Chip, 2k Ω 1/16W	
R111	ERJ2GEJ105X	Chip, 1M Ω 1/16W	
R112	ERJ2GEJ105X	Chip, 1M Ω 1/16W	
R113	ERJ2GEJ122X	Chip, 1.2k Ω 1/16W	
R114	ERJ2GEJ105X	Chip, 1M Ω 1/16W	
R115	ERJ12YJ200H	Chip, 20 Ω 1/2W	
R116	ERJ2GEJ2R2X	Chip, 2.2 Ω 1/16W	
R117	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R118	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R201	ERJ2GEJ221X	Chip, 220 Ω 1/16W	
R202	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R203	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R204	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R205	ERJ2GEJ273X	Chip, 27k Ω 1/16W	
R206	ERJ2GEJ273X	Chip, 27k Ω 1/16W	
R207	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R208	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R209	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R210	ERJ2GEJ105X	Chip, 1M Ω 1/16W	
R211	ERJ2GEJ471X	Chip, 470 Ω 1/16W	
R212	ERJ2GEJ393X	Chip, 39k Ω 1/16W	
R213	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R214	ERJ2GEJ153X	Chip, 15k Ω 1/16W	
R216	ERJ2GEJ105X	Chip, 1M Ω 1/16W	
R217	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R218	ERJ2GEJ562X	Chip, 5.6k Ω 1/16W	
R219	ERJ2GEJ562X	Chip, 5.6k Ω 1/16W	
R220	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R225	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R227	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R228	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R230	ERJ2GEJ820X	Chip, 82 Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R231	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R232	ERJ2GEJ820X	Chip, 82 Ω 1/16W	
R233	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
R234	ERJ2GEJ820X	Chip, 82 Ω 1/16W	
R235	ERJ2GEJ820X	Chip, 82 Ω 1/16W	
R236	ERJ2GEJ223X	Chip, 22k Ω 1/16W	
R237	ERJ2GEJ333X	Chip, 33k Ω 1/16W	
R301	ERJ2GEJ471X	Chip, 470 Ω 1/16W	
R303	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R304	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R306	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R307	ERJ2GEJ393X	Chip, 39k Ω 1/16W	
R308	ERJ2GEJ393X	Chip, 39k Ω 1/16W	
R309	ERJ2GEJ393X	Chip, 39k Ω 1/16W	
R310	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R311	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R314	ERJ2GEJ332X	Chip, 3.3k Ω 1/16W	
R315	ERJ2GEJ332X	Chip, 3.3k Ω 1/16W	
R316	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R317	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R318	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R319	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R320	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R321	ERJ2GEJ393X	Chip, 39k Ω 1/16W	
R322	ERJ2GEJ393X	Chip, 39k Ω 1/16W	
R401	ERJ2GEJ562X	Chip, 5.6k Ω 1/16W	
R402	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R403	ERJ2GEJ682X	Chip, 6.8k Ω 1/16W	
R404	ERJ2GEJ562X	Chip, 5.6k Ω 1/16W	
R405	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R406	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R407	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R408	ERJ8GEYJR68V	Chip, 0.68 Ω 1/8W	
R409	ERJ2GEJ101X	Chip, 100 Ω 1/16W	
R410	ERJ2GEJ101X	Chip, 100 Ω 1/16W	
R411	ERJ2GEJ181X	Chip, 180 Ω 1/16W	
R412	ERJ2GEJ181X	Chip, 180 Ω 1/16W	
R413	ERJ2GEJ181X	Chip, 180 Ω 1/16W	
R414	ERJ2GEJ181X	Chip, 180 Ω 1/16W	
R415	ERJ2GEJ181X	Chip, 180 Ω 1/16W	
R501	ERJ2GEJ470X	Chip, 47 Ω 1/16W	
R509	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R510	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R511	ERJ2GEJ752X	Chip, 7.5k Ω 1/16W	
R512	ERJ2GEJ152X	Chip, 1.5k Ω 1/16W	
R513	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R514	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
R515	ERJ2GEJ105X	Chip, 1M Ω 1/16W	
R516	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R517	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R518	ERJ2GEJ102X	Chip, 1k Ω 1/16W	

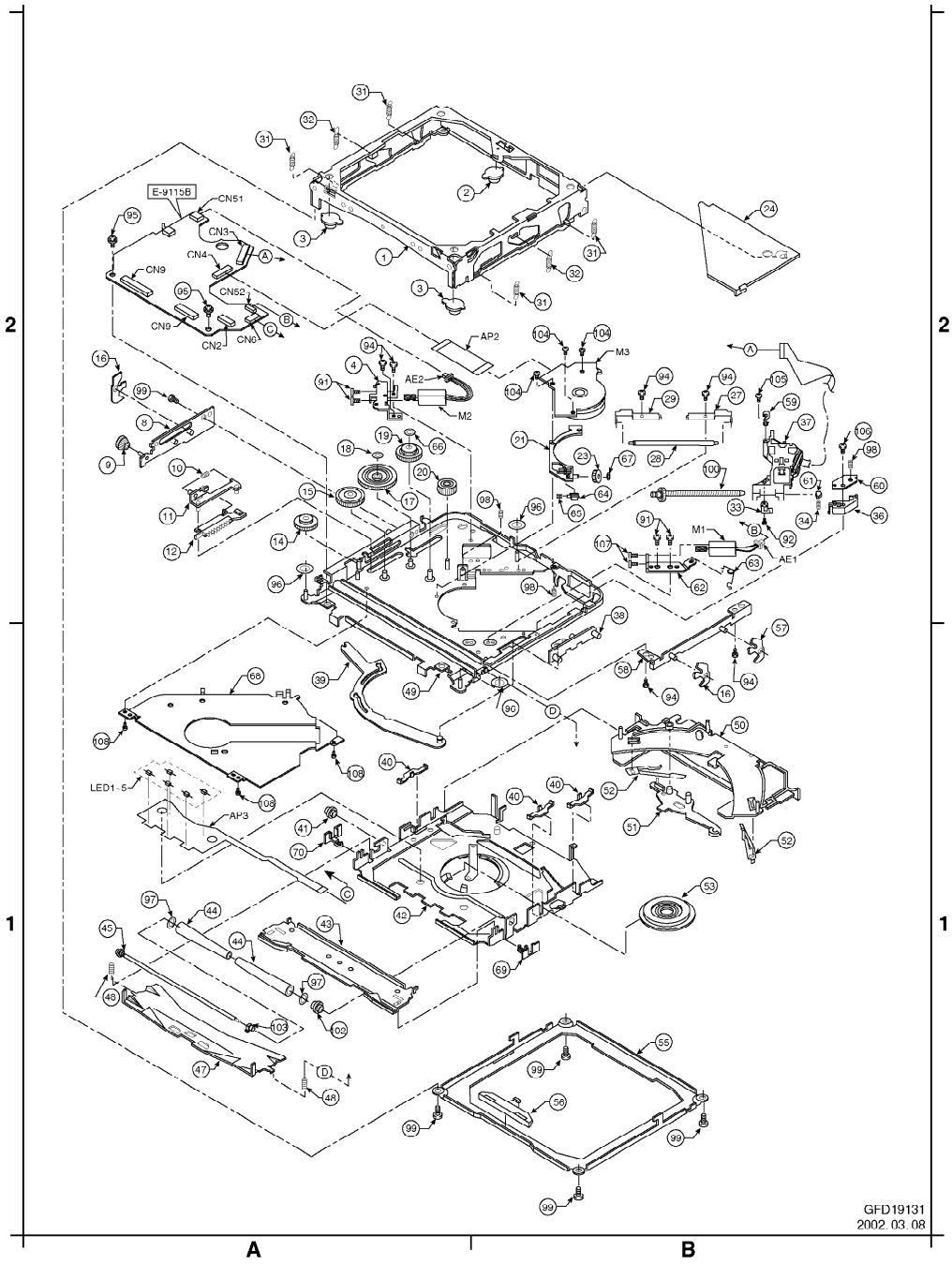
Ref. No.	Part No.	Part Name & Description	Remarks
R519	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R520	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R521	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R524	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R525	ERJ2GEJ101X	Chip, 100 Ω 1/16W	
R526	ERJ2GEJ470X	Chip, 47 Ω 1/16W	
R527	ERJ2GEJ101X	Chip, 100 Ω 1/16W	
R528	ERJ2GEJ101X	Chip, 100 Ω 1/16W	
R529	ERJ2GEJ101X	Chip, 100 Ω 1/16W	
R530	ERJ2GEJ101X	Chip, 100 Ω 1/16W	
R531	ERJ2GEJ101X	Chip, 100 Ω 1/16W	
R532	ERJ2GEJ471X	Chip, 470 Ω 1/16W	
R533	ERJ2GEJ471X	Chip, 470 Ω 1/16W	
R601	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R602	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R603	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
CONNECTORs			
CN1	K1MN40B00006	Connector, 40P	
CN2	YEAE5220708	Connector, 8P	
CN3	YEAE5243530	Connector, 30P	
CN4	YEAE5274520	Connector, 20P	
CN6	K1MN06B00014	Connector, 6P	
CN9	K1MN22B00017	Connector, 22P	
CN51	K1KA02B00078	Connector, 2P	
CN52	K1KA02B00078	Connector, 2P	
SWITCH			
SW1	ESE102MH4	Switch	
CRYSTALs			
X201	H0J168500003	Crystal OSC	
X501	H0J270500037	Crystal OSC	
CERAMIC FILTERs			
L101	J0JCC0000152	Noise Filter	
L102	J0JCC0000152	Noise Filter	
L201	J0JCC0000152	Noise Filter	
L202	J0JCC0000023	Noise Filter	
L501	J0JCC0000152	Noise Filter	
L502	J0JCC0000152	Noise Filter	
L503	J0JCC0000152	Noise Filter	
L507	J0JCC0000152	Noise Filter	
L513	J0JCC0000152	Noise Filter	
L514	J0JCC0000152	Noise Filter	
L515	J0JCC0000152	Noise Filter	

Ref. No.	Part No.	Part Name & Description	Remarks
L518	J0JCC0000152	Noise Filter	
L520	J0JCC0000152	Noise Filter	
L526	J0JCC0000152	Noise Filter	
RESISTOR NETWORKs			
R134	D1H839340001	Resistor Network	
R135	D1H839340001	Resistor Network	
R221	D1H822040002	Resistor Network	
R222	D1H822040002	Resistor Network	
R223	D1H822040002	Resistor Network	
R224	D1H822040002	Resistor Network	
R226	D1H810340005	Resistor Network	
R229	D1H882040001	Resistor Network	
R302	D1H810340005	Resistor Network	
R312	D1H810340005	Resistor Network	
R502	D1H882040001	Resistor Network	
R503	D1H882040001	Resistor Network	
R504	D1H882040001	Resistor Network	
R505	D1H882040001	Resistor Network	
R506	D1H882040001	Resistor Network	
R507	D1H882040001	Resistor Network	
R508	D1H882040001	Resistor Network	
R522	D1H810340005	Resistor Network	
R523	D1H810340005	Resistor Network	
COILs			
L522	EXCCET103U	RF Coil	
L523	EXCCET103U	RF Coil	
MISCELLANEOUS			
M1	YERAK0004	Travese Motor	
M2	YERAK0003	Loading Motor	
M3	PKN12EB105B	Spindle Motor	
AE1	K1LA02A00019	Connector,2P	
AE2	K1LA02A00020	Connector, 2P	
AP2	K9ZZ00000947	Connector	
AP3	YGAP2736A	Sensor FPC	
LED1	YEADAN1102W	Diode	
LED2	YEADAN1102W	Diode	
LED3	YEADAN1102W	Diode	
LED4	YEADAN1102W	Diode	
LED5	YEADAN1102W	Diode	
1	YGFA011999	Main Chassis	
2	YEFS04709	Rubber Dumper	
3	YEFS04708	Rubber Dumper	
4	YGFX018702	Loading Motor Bracket Ass'y	
8	YEFX018641	Gear Bracket Ass'y	
9	YEFX0031016	Loading Gear 6	
10	YEFX0052462	Clamp Rack Spring	
11	YEFX249473	Slide Lever (R) Ass'y	

Ref. No.	Part No.	Part Name & Description	Remarks
12	YEFX0031018	Clamp Rack	
14	YEFX0031015	Loading Gear 5	
15	YEFX0031014	Loading Gear 4	
16	YGFX249503	Clamp Cam	
17	YEFX0031013	Clamp Gear 3	
18	YEFX014073	Retaining Ring	
19	YGFX0031143	Clamp Gear 2	
20	YGFX0031142	Clamp Gear 1	
21	YERFW04005	SP Housing Ass'y	
23	YGFX0031144	Traverse Gear 2	
24	YGFX9992807	FPC Cover	
27	YGFX0052616	Tilt Spring A	
28	YGFW062767	Guide Shaft	
29	YGFX0052617	Tilt Spring B	
31	YEFX0052456	Suspension Spring	
32	YEFX0052457	Offset Spring	
33	YGFX9992706A	Fead Screw Holder Ass'y	
34	YGFX0052618	Tilt Spring C	
36	YGFW04188	OUT Housing	
37	RD-DDP005-CK	Optical Pickup	
38	YGFX249495	Slide Lever (L) Ass'y	
39	YGFX249497	Connecting Arm Ass'y	
40	YEFX0052460	Clamp Chassis Spring	
41	YEFX0031017	Loading Gear 7	
42	YGFA011989A	Clamp Chassis	
43	YEFX239473A	Disc Guide FL	
44	YEFX218309A	Rubber Roller	
45	YERFX03013	Roller Gear Ass'y	
47	YEFX239472A	Disc Guide FU	
48	YEFX0052458	Guide Spring F	
49	YGFA011991	Suspension Chassis	
50	YGFX239479	Disc Guide BU	
51	YGFX249472B	Change Over Arm	
52	YEFX0052459	Guide Spring B	
53	YGFX9992700	Clamper	
55	YGFA011993	Upper Chassis	
56	YEFX239471	Disc Guide CU	
57	YGFX249504	Clamp Cam	
58	YGFX249494	Cam Holder Plate	
59	YGFX0052563	Guide Spring	
60	YGFX9992705	Tilt Plate	
61	YGFX9992704	Lead Cap	
62	YGFX018693	Traverse Motor Bracket Ass'y	
63	YGFX0052624	Slide Lever Spring	
64	YGFX9992703	Push Lever	
65	YGFX0052561	Leaf Spring	
66	YEFX014011	Retaining Ring	
67	YEFX014020	Retaining Ring	
68	YGFX9992721	Cover	
69	YGFX9992701	Guide L	
70	YGFX9992702	Guide R	
91	YEJS06222	Screw, 1.4mm * 2mm	
92	XQN17+A25FX	Screw, 1.7mm * 2.5mm	

Ref. No.	Part No.	Part Name & Description	Remarks
94	XQN2+A25FX	Screw, 2mm * 2.5mm	
95	YEJT03152	Tapping Screw	
96	YEJW05156A	Washer	
97	YEJW04128	Washer	
98	YGJS06275	Tilt Adjusting Screw	
99	YEJT03131	Tapping Screw	
100	YERJT01004	Feed Screw Gear Ass'y	
102	YEFW04175	Shaft Collar	
103	YEFW04176	Shaft Collar	
104	YGJS06290	Screw	
105	XQN14+A2FX	Screw, 1.4mm * 2mm	
106	XYN2+C8FX	Screw, 2mm * 8mm	
107	XQN2+C2FX	Screw, 2mm * 2mm	
108	XQN2+A25FX	Screw, 2mm * 2.5mm	

13. EXPLODED VIEW (DVD Deck)



14. WIRING DIAGRAM

14.1. Main Block -1 (Top View)

14.2. Main Block -2 (Bottom View)

14.3. DVD Servo Block-1 (Top View)

14.4. DVD Servo Block-2 (Bottom View)

14.5. ESC Block

15. SCHEMATIC DIAGRAM

15.1. Main/ESC Block

15.2. DVD Servo Block-1

15.3. DVD Servo Block-2

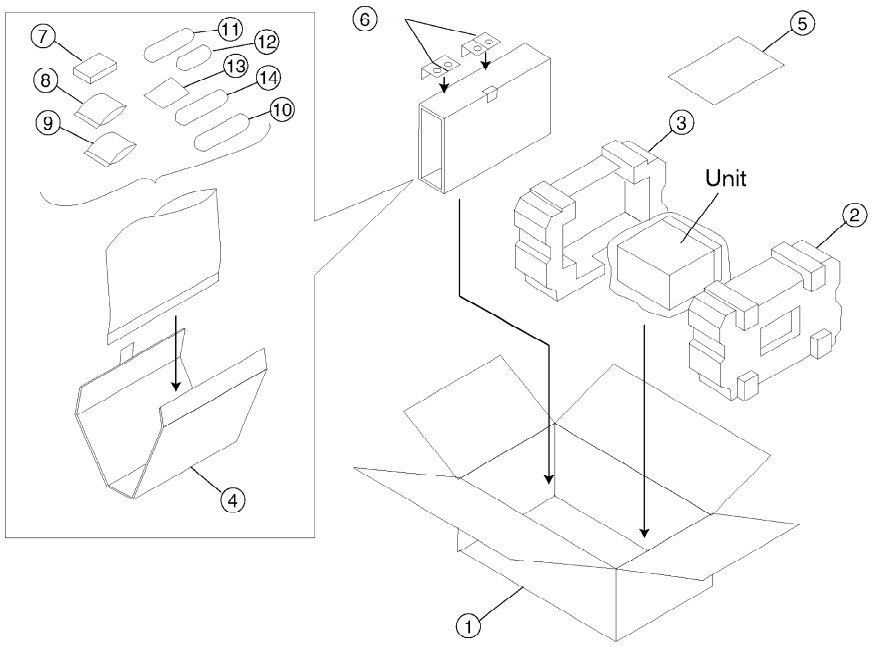
THIS PAGE IS JUST FOR THE PAGE LAYOUT USE ONLY.

16. BLOCK DIAGRAM

16.1. DVD Servo Block

16.2. Main/ESC Block

17. PACKING PARTS LIST



● **Item numbers listed below should not order regular spare parts. (not available)**

Item No.	Parts No.	Parts Name & Description	Q'ty	Remarks
1	-	Inner Carton	1	Not available
2	-	Packing Pad (L)	1	Not available
3	-	Packing Pad (R)	1	Not available
4	-	Packing Pad	1	Not available
5	-	Operating Instructions Kit	1	Not available
	YEFM283804A	Operating Instructions	(1)	
	-	Warranty Card for USA	(1)	Not available
	-	Warranty Card for Canada	(1)	Not available
	-	Servicenter List for USA	(1)	Not available
6	YEFG021010A	L-Shaped Brackets	2	
7	CR2025/1F	Lithium Battery	1	Not available
8	YEP9FZ2888	Clamp Connector	1	
9	YEP9FZ3053	Screws Kit	1	
10	YEAJ02836	Power Connector	1	
11	YEFX9991523	Double-Sided Tape	1	
12	YEFX007668	Cord Clamp	1	
13	YEFX9992510	Remote Control Unit	1	
14	YEFX9991540	Remote Control Signal Receiver	1	

18. SCHEMATIC DIAGRAM for Printing with Letter Size

18.1. Main/ESC Block (Left Side)

18.2. Main/ESC Block (Right Side)

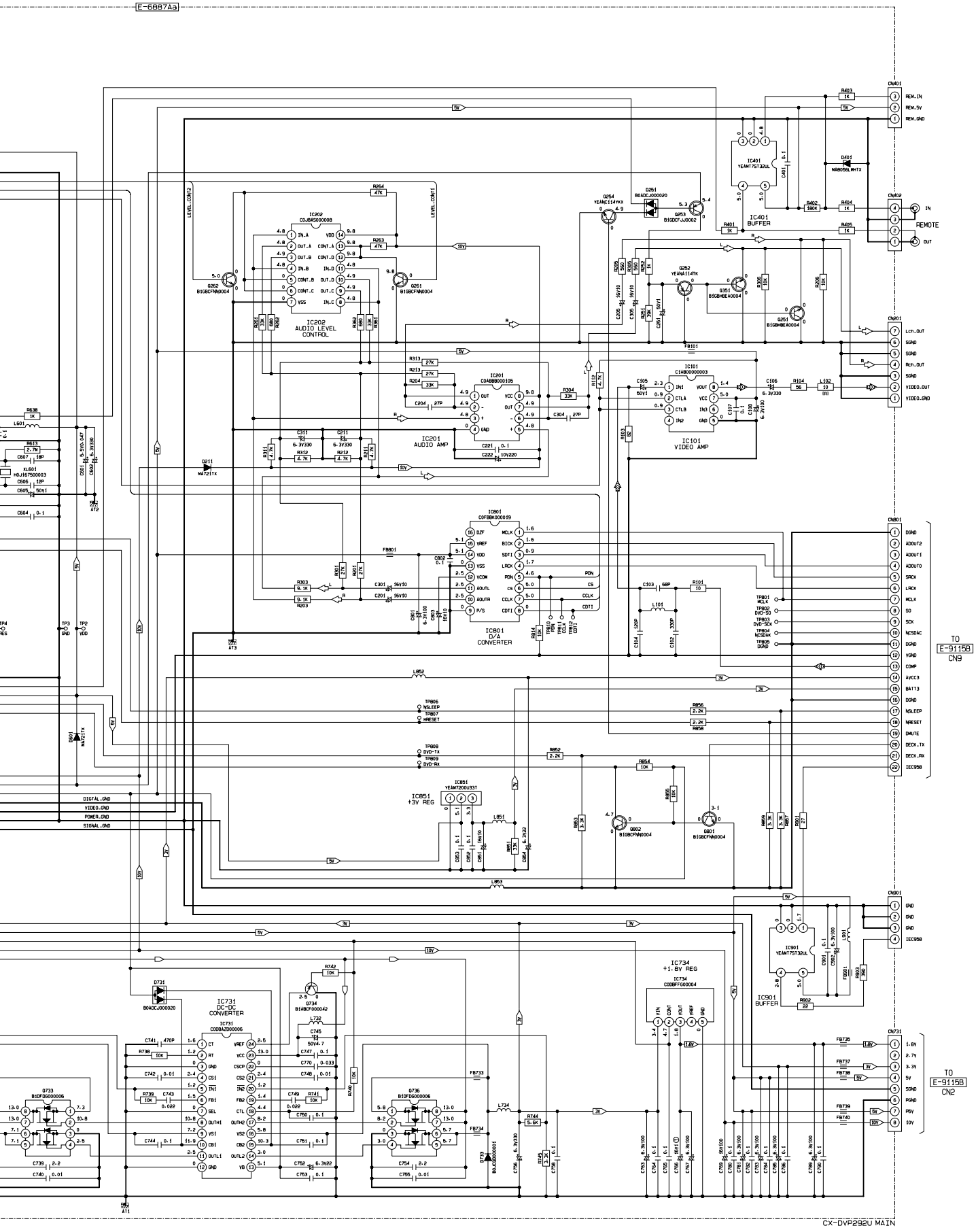
18.3. DVD Servo Block-1 (Left Side)

18.4. DVD Servo Block-1 (Right Side)

18.5. DVD Servo Block-2 (Left Side)

18.6. DVD Servo Block-2 (Right Side)

Printed in Japan / 2002.3 (K)


E-6887Aa
IC202
AUDIO LEVEL CONTROL
IC201
AUDIO AMP
IC101
VIDEO AMP
IC401
BUFFER
IC801
D/A CONVERTER
IC851
+3V REG
IC731
DC-DC CONVERTER
IC734
+1.8V REG
IC901
BUFFER
TO E-9115B CN9
TO E-9115B CN2
CX-DVP292U MAIN

To Optical Pick-up Ass'y

To Traverse Motor

To Loading Motor

To Servo Block 2/2 (A)

To Servo Block 2/2 (B)

To Servo Block 2/2 (C)

To Servo Block 2/2 (D)

To Servo Block 2/2 (E)

To Servo Block 2/2 (F)

To Servo Block 2/2 (G)

TO E-66874A3 CN731

IC101 RF AMP. LD APC. ERROR AMP

IC201 DSP

IC301 CPU

IC303 DRAM

IC401 COIL/MOTOR DRIVE

IC202 RESET

IC204 AND

The following symbols are shown on the schematic diagram.

10V	10V
5V	5V
3V	3V
1.8V	1.8V

IC501
MPEG

IC502
C38BM5000102
ROM

IC507
C38BHC000246
SRAM

IC501
MN67533MPUC

IC402
SPINDLE
MOTOR DRIVE
IC402
C0GBH6000006

IC503
C1ABB0001319
CLOCK
GENERATOR

IC501			
Waveform	Pin No.	Waveform	Pin No.
2V/DIV· 10nS/DIV	3PIN·6PIN·8PIN· 14PIN~16PIN· 21PIN~25PIN· 150PIN·161PIN~164PIN·167PIN· 170PIN~177PIN·180PIN~183PIN	2V/DIV· 0.1uS/DIV	33PIN~88PIN
2V/DIV· 10nS/DIV	27PIN~32PIN	0.1V/DIV·0.5uS/DIV	92PIN~94PIN
2V/DIV· 10nS/DIV	30PIN	0.2V/DIV· 10uS/DIV	124PIN
2V/DIV· 0.1uS/DIV	31PIN~35PIN~38PIN· 40PIN~43PIN~45PIN~47PIN· 49PIN~51PIN~54PIN~57PIN· 59PIN~62PIN~64PIN~67PIN· 69PIN~89PIN~203PIN~204PIN· 207PIN	2V/DIV· 20uS/DIV	196PIN

The following symbols are shown on the schematic diagram.

5V	5V
3V	3V
1.8V	1.8V
VISUAL	VISUAL

E-6887Aa

The following symbols are shown on the schematic diagram.

◁	+B	3V	3V
◁ACC	ACC	1.8V	1.8V
10V	10V	VISUAL	VISUAL
5V	5V	AUDIO (L,R)	AUDIO (L,R)

E-6887Ab

CN501 (VPP, SO, VDD, SI, RESET, GND)

CN601 (ILL.10V, NC, RESET, EJECT, EJECT.ILL, DISC.ILL, ILL.CONT, GND)

SW511 K0HIBA002295
SW512 K0HIBA000295

IC501 CPU

IC601 C2DBMJ000084

IC701 BATT/ACC DETECT-RESET

IC702 +10V REG

IC731 DC-DC CONVERTER

IC734 +1.8V REG

IC851 +3V REG

IC202 AUDIO LEVEL CONTROL

IC201 AUDIO AMP

IC401 BUFFER

IC101 VIDEO AMP

IC901 BUFFER

IC801 D/A CONVERTER

CN401 (REM.IN, REM.5V, REM.GND)

CN402 (IN, REMOTE, OUT)

CN201 (Lch.OUT, SGND, SGND, Rch.OUT, SGND, VIDEO.OUT, VIDEO.GND)

CN801 (DGND, ADOUT2, ADOUT1, ADOUT0, SRCK, LRCK, MCLK, SO, SCK, NCSDAC, DGND, VGND, COMP, AVCC3, BATT3, DGND, NSLEEP, NRESET, DMUTE, DECK.TX, DECK.RX, IEC958)

CN901 (GND, GND, GND, IEC958)

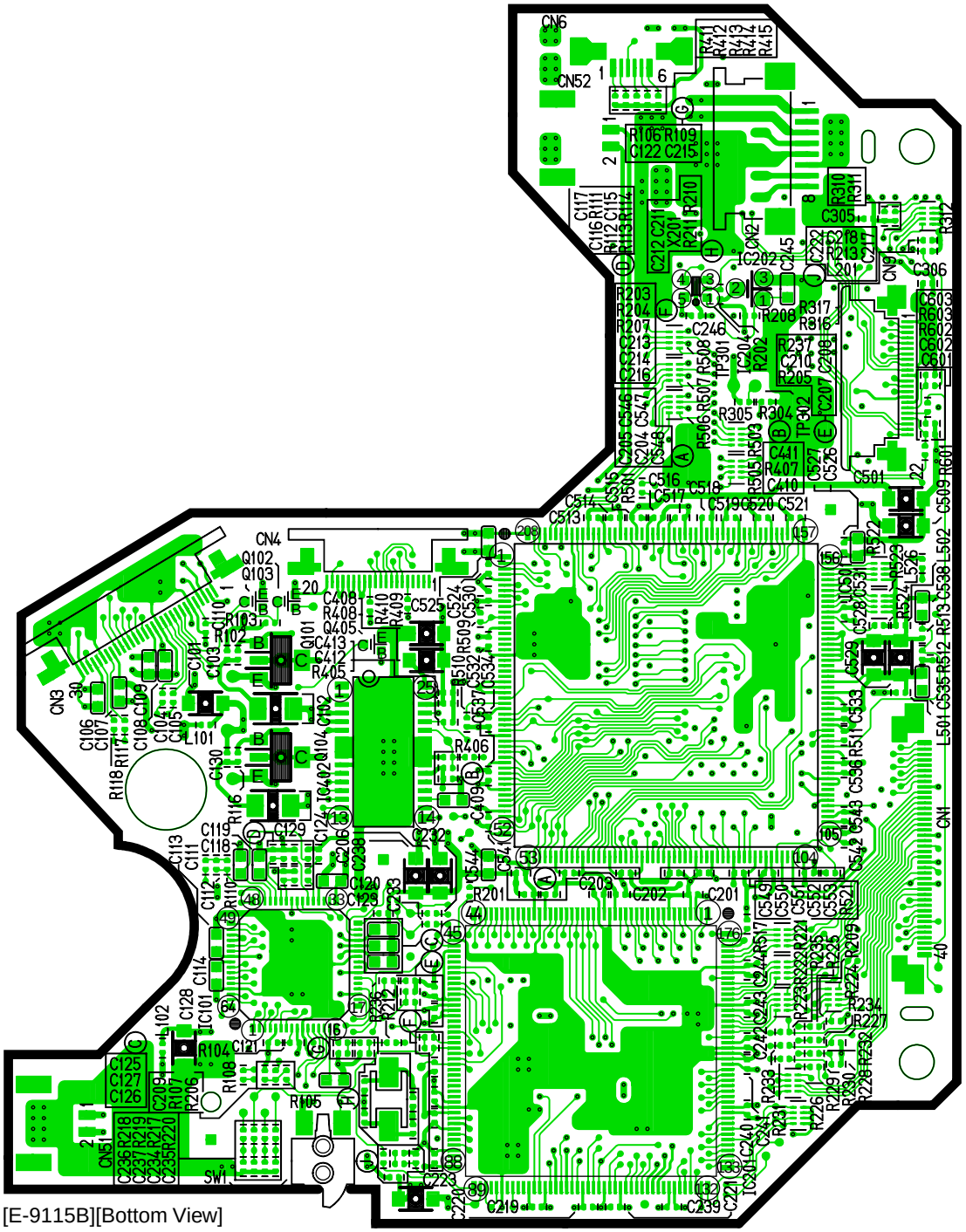
CN731 (1.8V, 2.7V, 3.3V, 5V, SGND, PGND, PSV, 10V)

TO E-91158 CN9

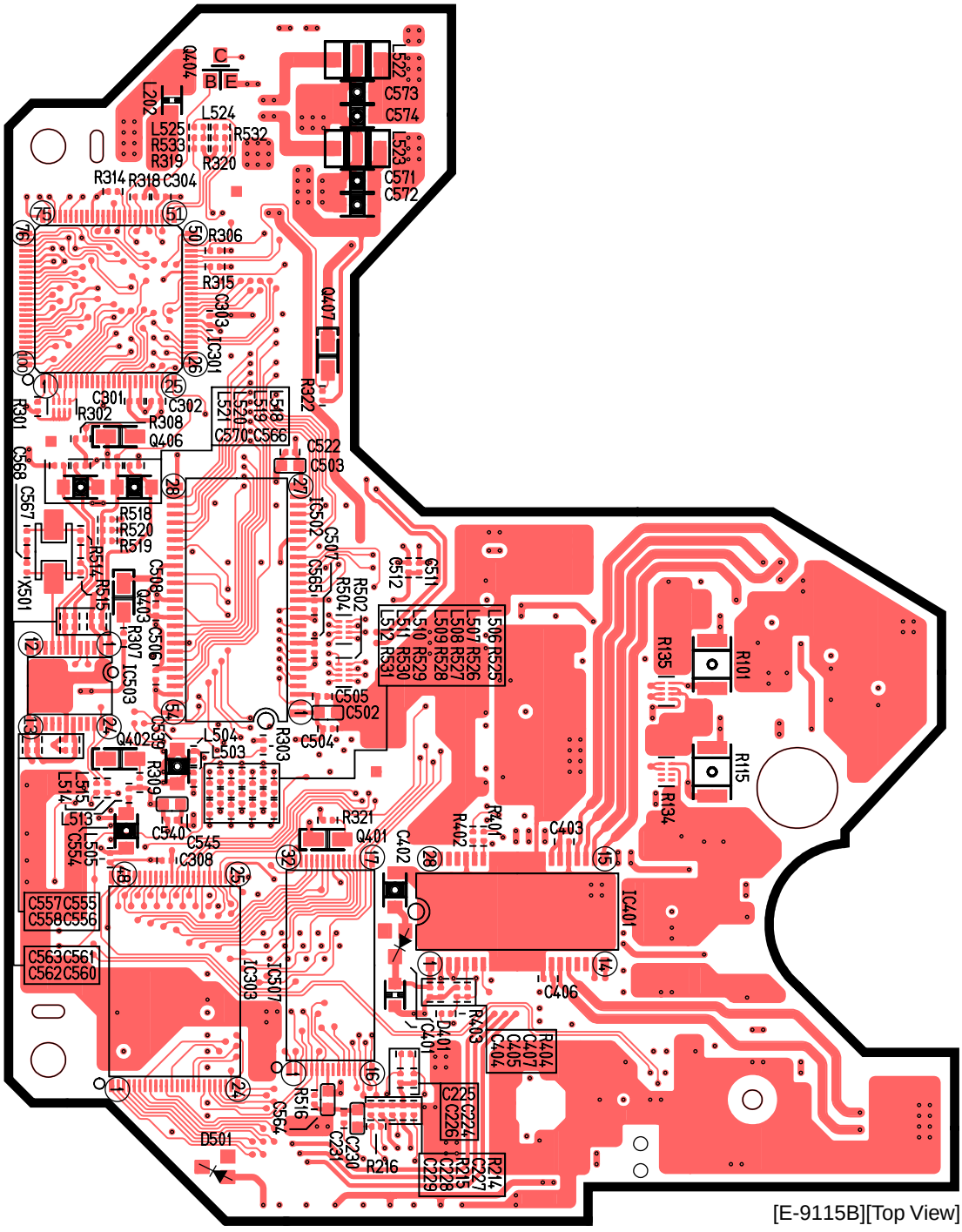
TO E-91158 CN2

DIGITAL_GND
VIDEO_GND
POWER_GND
SIGNAL_GND

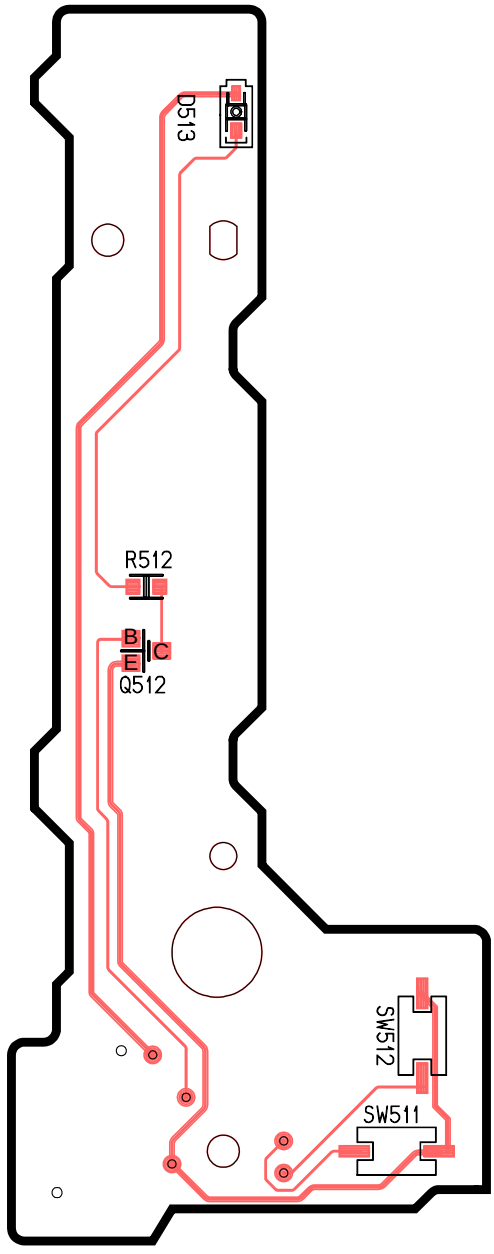
CX-DVP292U MAIN



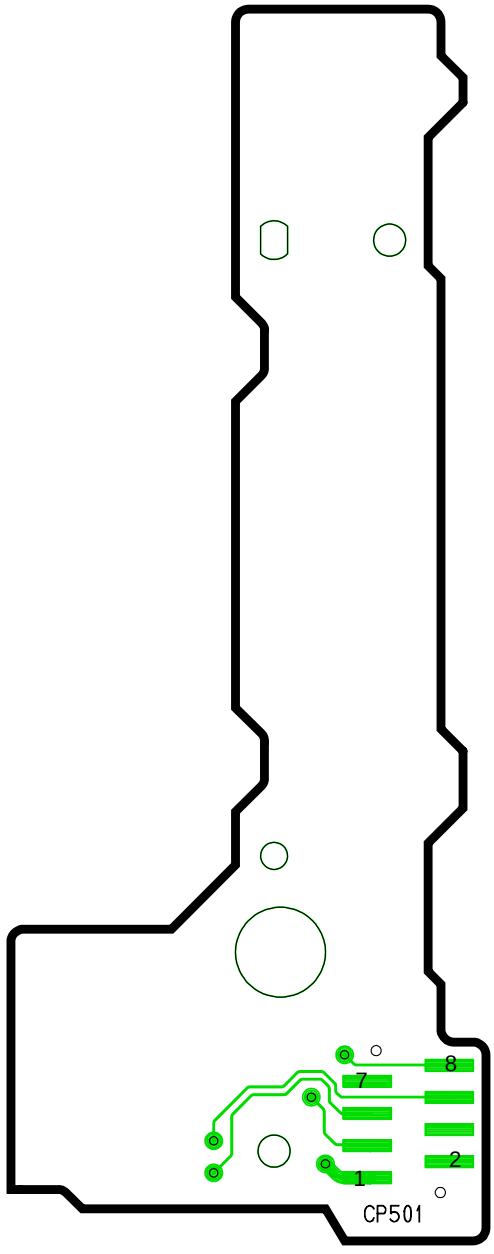
[E-9115B][Bottom View]



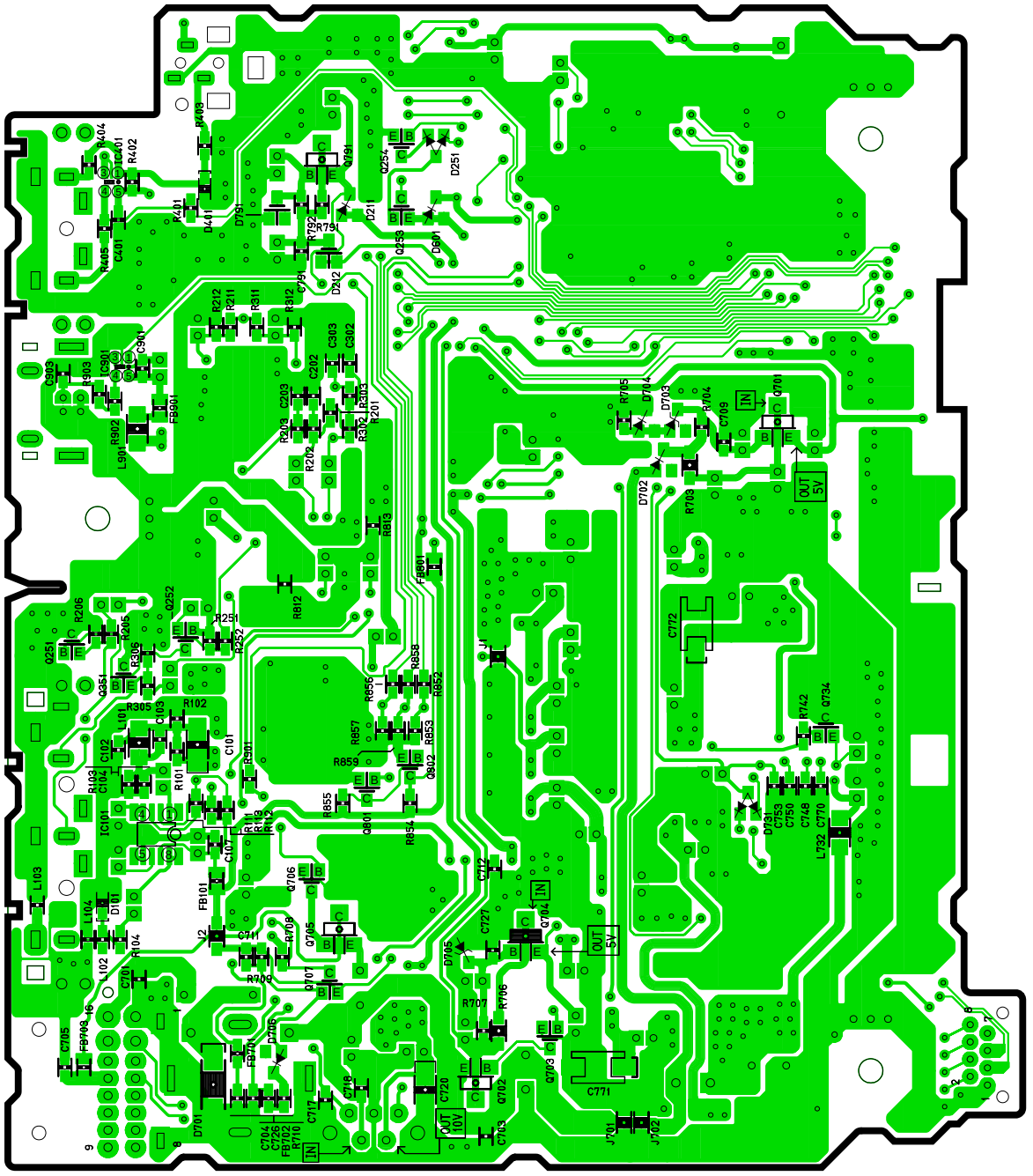
[E-9115B][Top View]



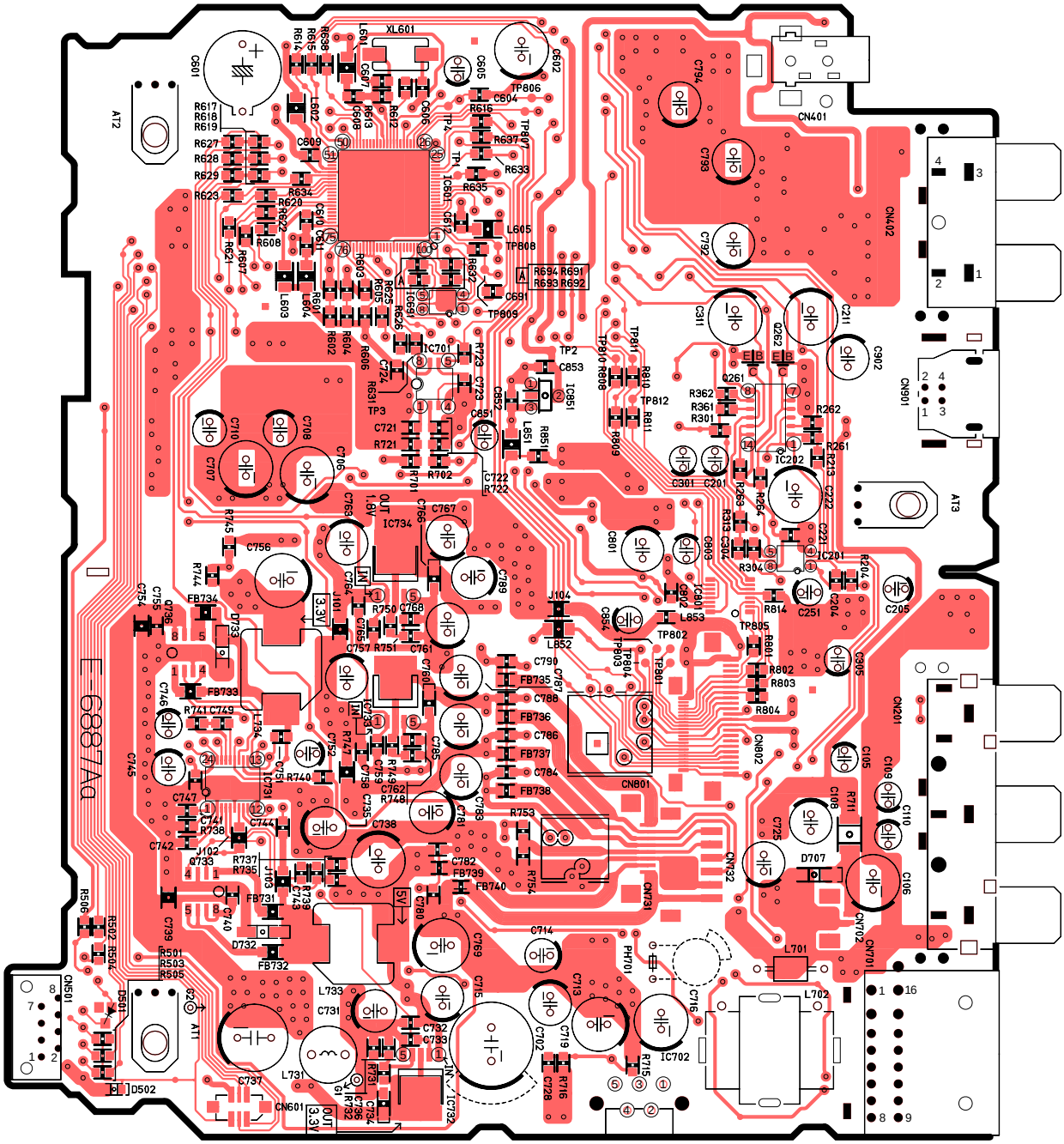
[E-6887Ab][Top View]



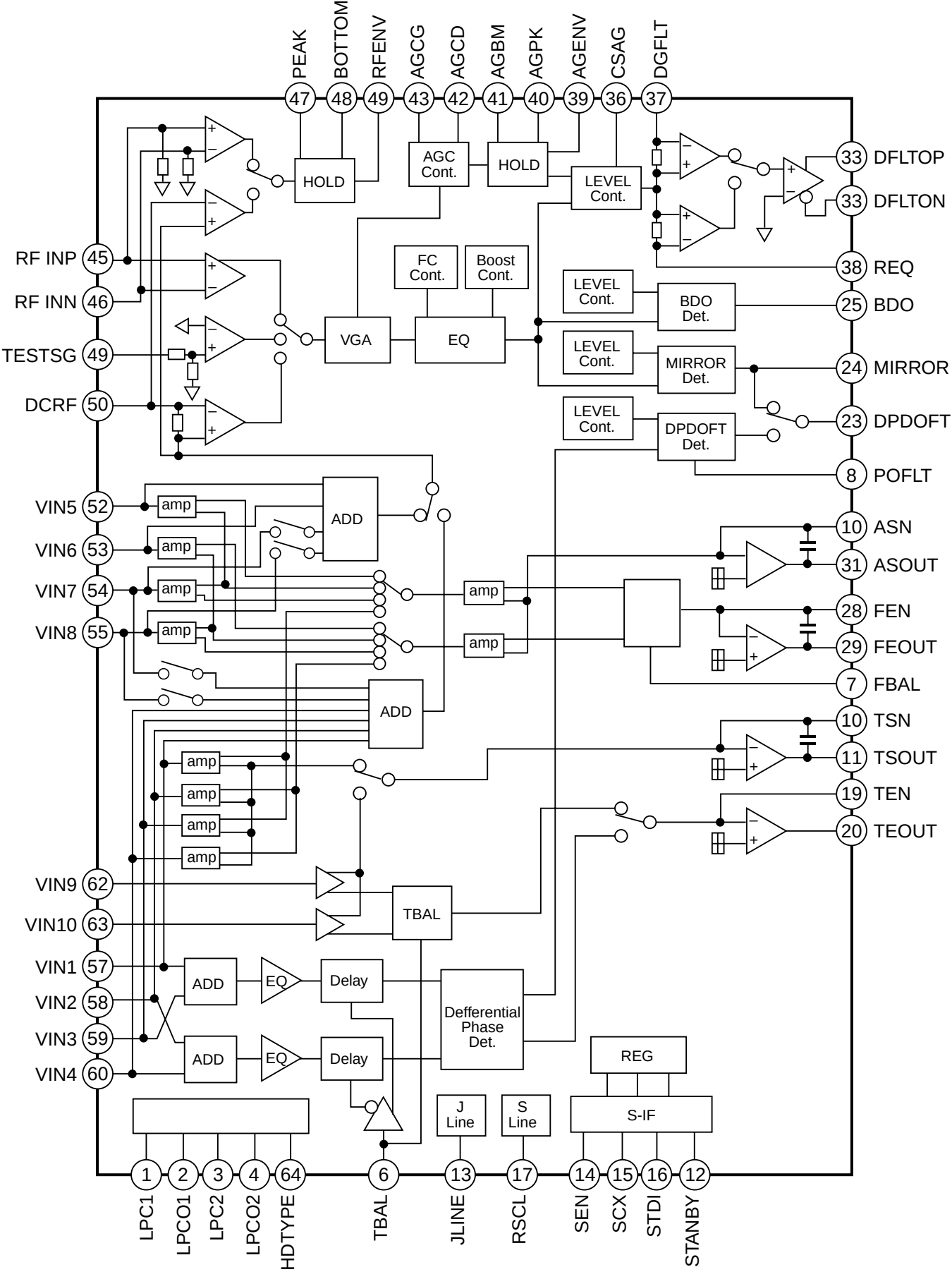
[E-6887Ab][Bottom View]

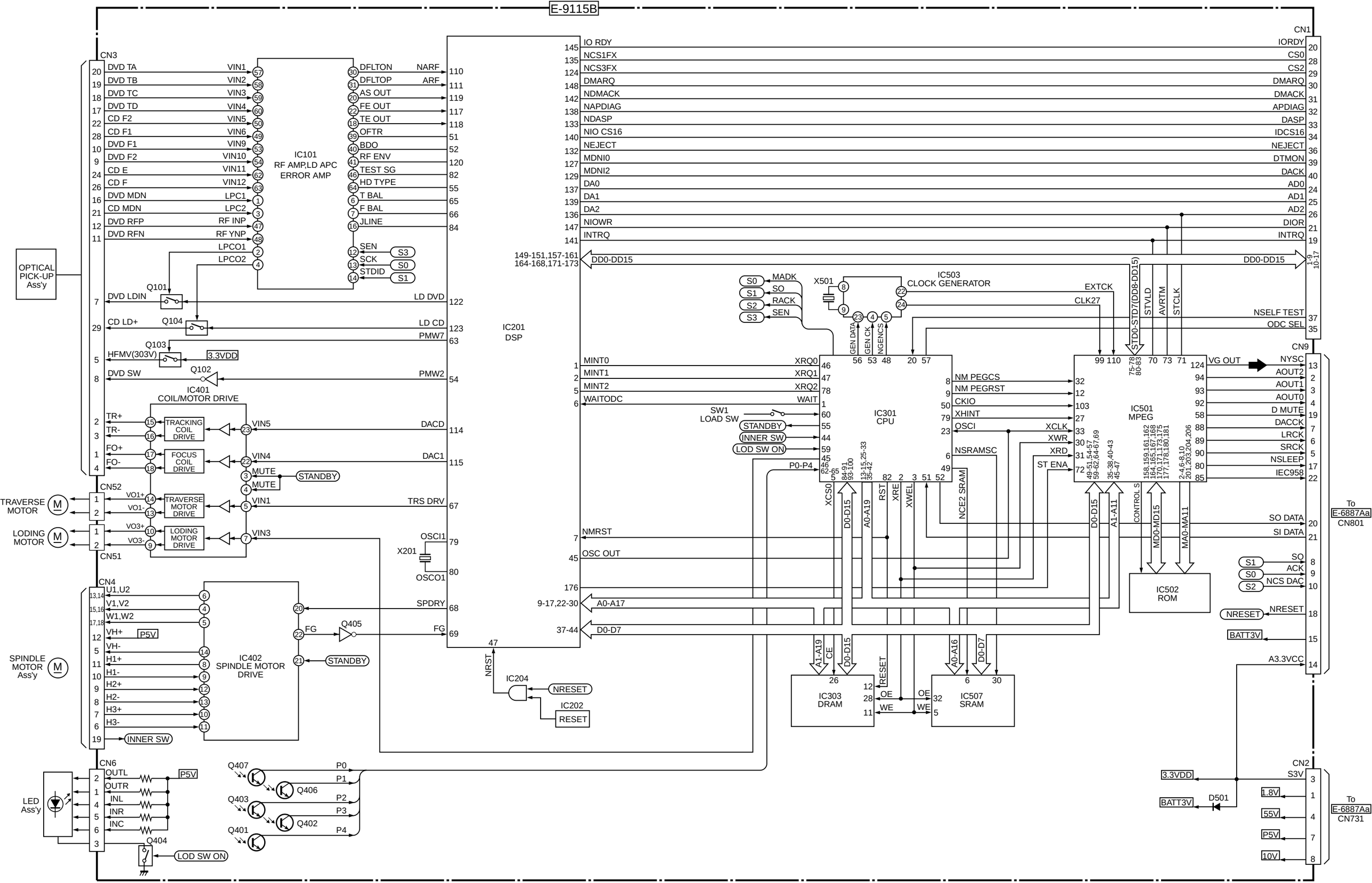


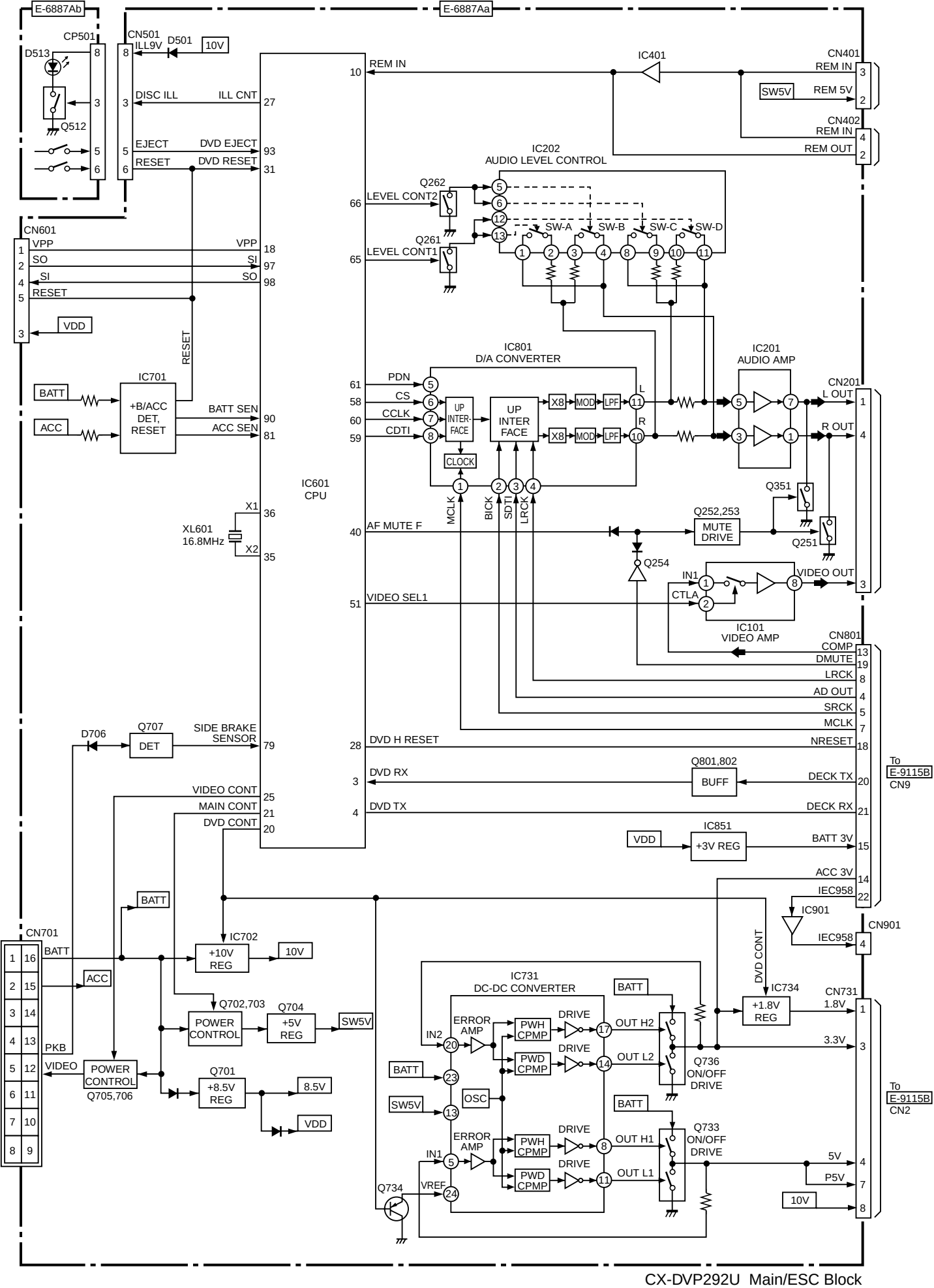
[E-6887Aa][Bottom View]



[E-6887Aa][Top View]

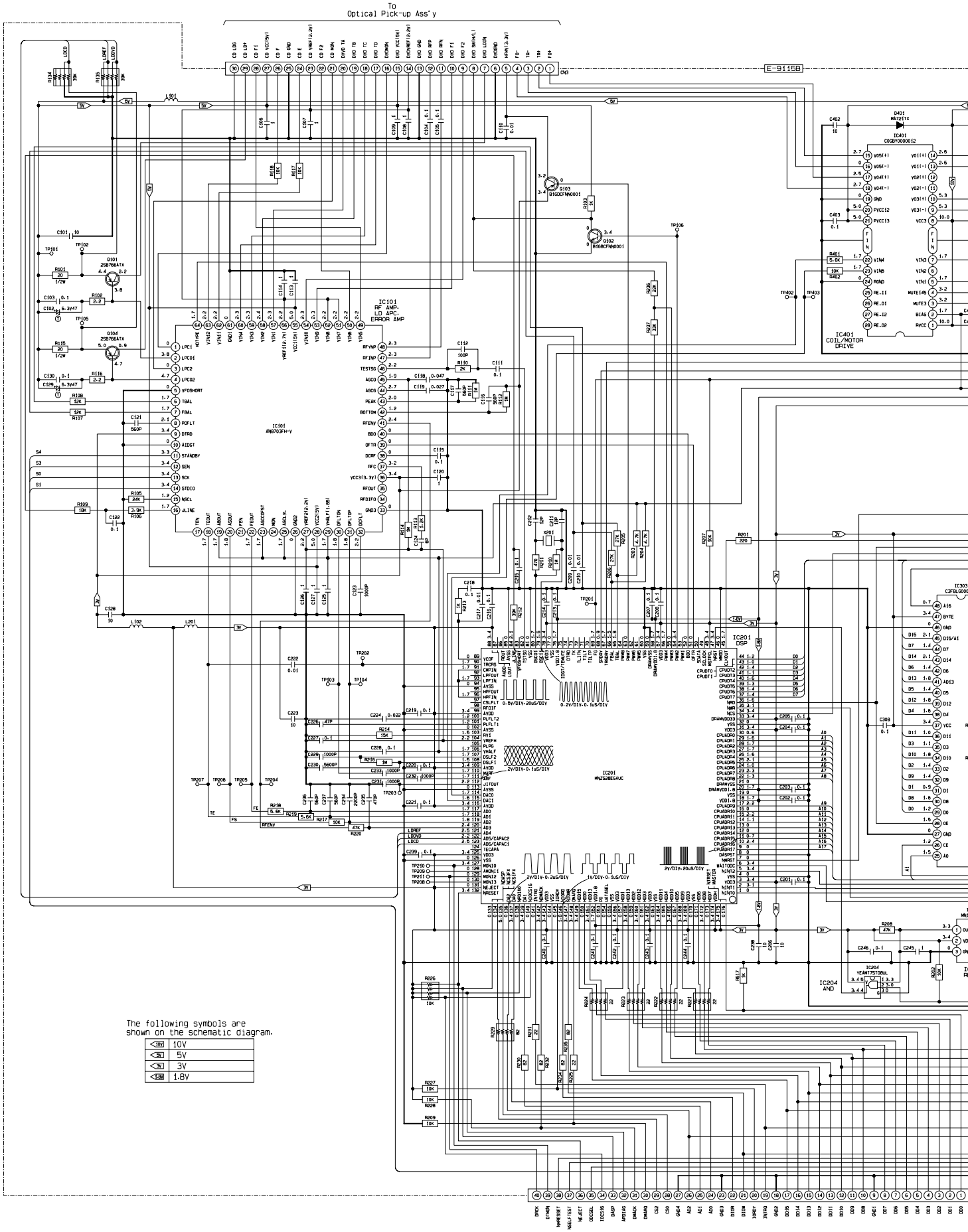

PEAK
BOTTOM
RFENV
AGCG
AGCD
AGBM
AGPK
AGENV
CSAG
DGFLT
47
48
49
43
42
41
40
39
36
37
HOLD
AGC Cont.
HOLD
LEVEL Cont.
33 DFLTOP
33 DFLTON
RF INP 45
RF INN 46
TESTSG 49
DCRF 50
FC Cont.
Boost Cont.
VGA
EQ
LEVEL Cont.
BDO Det.
38 REQ
25 BDO
LEVEL Cont.
MIRROR Det.
24 MIRROR
LEVEL Cont.
DPDOFT Det.
23 DPDOFT
8 POFLT
VIN5 52
VIN6 53
VIN7 54
VIN8 55
amp
ADD
10 ASN
31 ASOUT
28 FEN
29 FEOUT
7 FBAL
10 TSN
11 TSOUT
19 TEN
20 TEOUT
VIN9 62
VIN10 63
TBAL
VIN1 57
VIN2 58
VIN3 59
VIN4 60
EQ
Delay
Defferential Phase Det.
REG
S-IF
J Line
S Line
1
2
3
4
64
6
13
17
14
15
16
12
LPC1
LPCO1
LPC2
LPCO2
HDTYPE
TBAL
JLINE
RSCL
SEN
SCX
STDI
STANBY

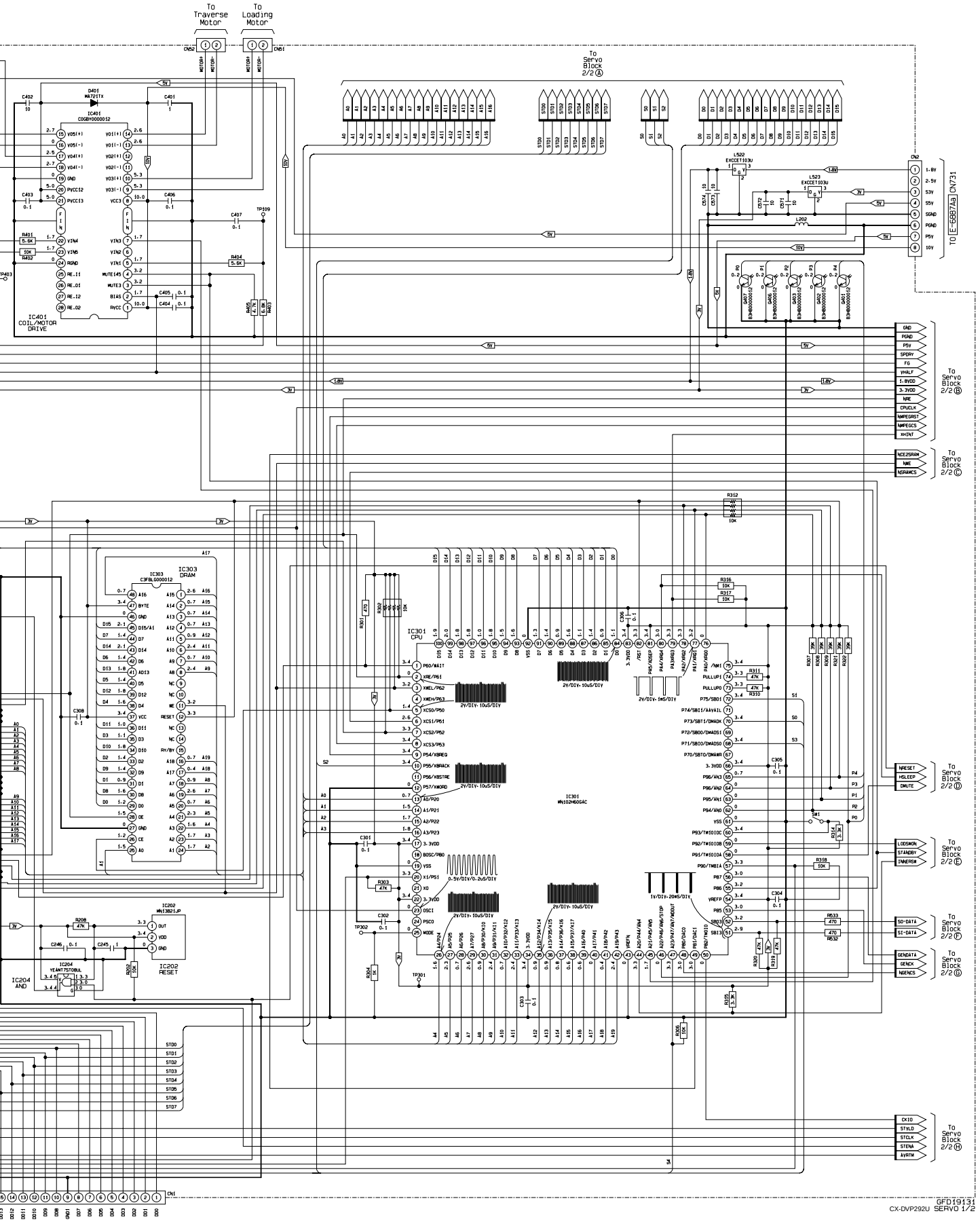

E-9115B
CN3
DVD TA
DVD TB
DVD TC
DVD TD
CD F2
CD F1
DVD F1
DVD F2
CD E
CD F
DVD MDN
CD MDN
DVD RFP
DVD RFN
VIN1
VIN2
VIN3
VIN4
VIN5
VIN6
VIN9
VIN10
VIN11
VIN12
LPC1
LPC2
RF INP
RF YNP
LPCO1
LPCO2
IC101
RF AMP,LD APC
ERROR AMP
DFLTON
DFLTOP
AS OUT
FE OUT
TE OUT
OFTR
BDO
RF ENV
TEST SG
HD TYPE
T BAL
F BAL
JLINE
SEN
SCK
STDID
S3
S0
S1
NARF
ARF
OPTICAL
PICK-UP
Ass'y
Q101
DVD LDIN
LD DVD
CD LD+
Q104
LD CD
Q103
HFMV(303V)
3.3VDD
PMW7
DVD SW
Q102
PMW2
IC401
COIL/MOTOR DRIVE
TR+
TR-
FO+
FO-
TRACKING
COIL
DRIVE
FOCUS
COIL
DRIVE
DACD
DAC1
MUTE
STANDBY
CN52
TRAVERSE
MOTOR
VO1+
VO1-
TRAVERSE
MOTOR
DRIVE
TRS DRV
LODING
MOTOR
VO3+
VO3-
LODING
MOTOR
DRIVE
CN51
CN4
U1,U2
V1,V2
W1,W2
VH+
P5V
VH-
H1+
H1-
H2+
H2-
H3+
H3-
INNER SW
SPINDLE
MOTOR
Ass'y
IC402
SPINDLE MOTOR
DRIVE
FG
Q405
SPDRY
FG
OSCI1
OSCO1
X201
NRST
IC204
NRESET
IC202
RESET
IC201
DSP
IO RDY
NCS1FX
NCS3FX
DMARQ
NDMACK
NAPDIAG
NDASP
NIO CS16
NEJECT
MDNI0
MDNI2
DA0
DA1
DA2
NIOWR
INTRQ
DD0-DD15
MADK
SO
RACK
SEN
X501
IC503
CLOCK GENERATOR
GEN DATA
GEN CK
NGENCS
EXTCK
CLK27
NSELF TEST
ODC SEL
STD0-STD7/(DD8-DD15)
STVLD
AVRTM
STCLK
CN1
IORDY
CS0
CS2
DMARQ
DMACK
APDIAG
DASP
IDCS16
NEJECT
DTMON
DACK
AD0
AD1
AD2
DIOR
INTRQ
DD0-DD15
CN9
MINT0
MINT1
MINT2
WAITODC
XRQ0
XRQ1
XRQ2
WAIT
SW1
LOAD SW
STANDBY
INNER SW
LOD SW ON
P0-P4
IC301
CPU
NMRST
OSC OUT
A0-A17
D0-D7
NM PEGCS
NM PEGRST
CKIO
XHINT
OSCI
NSRAMSC
XCLK
XWR
XRD
ST ENA
IC501
MPEG
VG OUT
NYSC
AOUT2
AOUT1
AOUT0
D MUTE
DACCK
LRCK
SRCK
NSLEEP
IEC958
To
E-6887Aa
CN801
SO DATA
SI DATA
CONTROL S
MDO-MD15
MAO-MA11
IC502
ROM
SQ
ACK
NCS DAC
NRESET
BATT3V
A3.3VCC
A1-A19
CE
D0-D15
RESET
A0-A16
IC303
DRAM
IC507
SRAM
OE
WE
CN2
S3V
3.3VDD
BATT3V
D501
1.8V
55V
P5V
10V
To
E-6887Aa
CN731
CN6
QUTL
QUTR
INL
INR
INC
LED
Ass'y
Q404
LOD SW ON
Q407
Q406
Q403
Q402
Q401
P0
P1
P2
P3
P4
GFD19131
CX-DVP292U DVD Servo Block



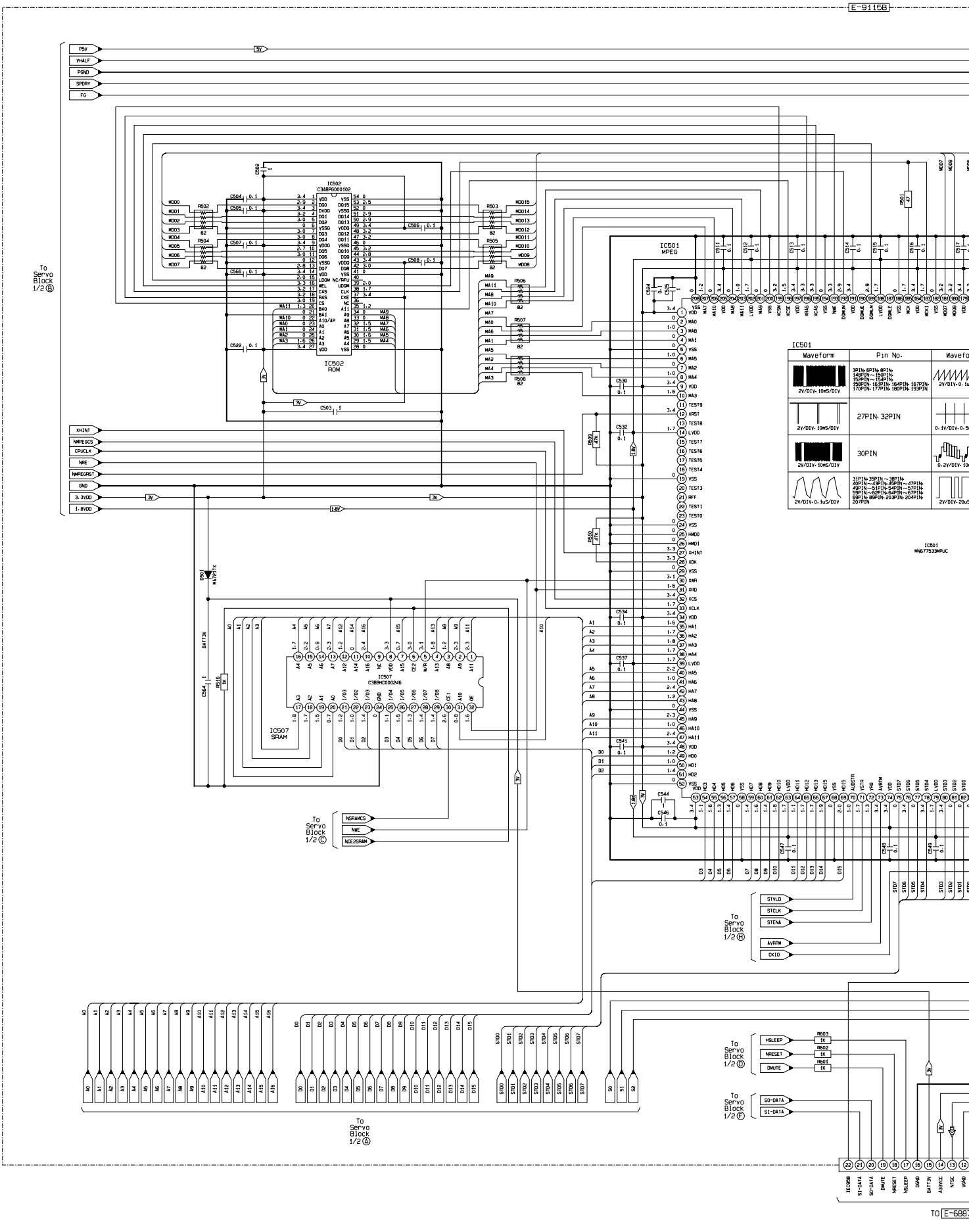
CX-DVP292U Main/ESC Block

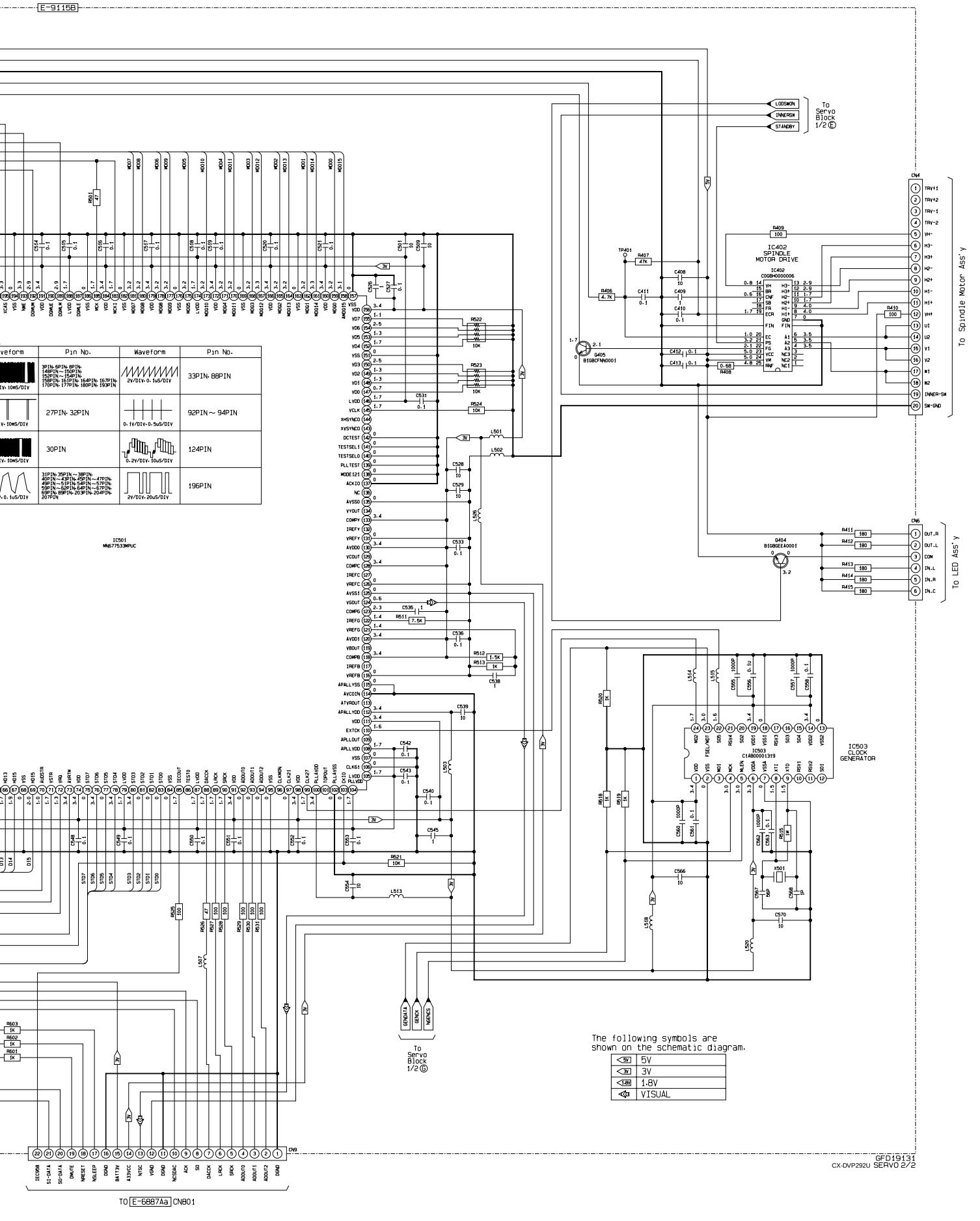
15.2. DVD Servo Block-1




To Traverse Motor
To Loading Motor
To Servo Block 2/2 (A)
IC401 COIL/MOTOR DRIVE
IC303 DRAM
IC301 CPU
IC204 AND
IC202 RESET
TO E-6887A CN731
To Servo Block 2/2 (B)
To Servo Block 2/2 (C)
To Servo Block 2/2 (D)
To Servo Block 2/2 (E)
To Servo Block 2/2 (F)
To Servo Block 2/2 (G)
To Servo Block 2/2 (H)

15.3. DVD Servo Block-2





Waveform	Pin No.	Waveform	Pin No.
	3PIN~6PIN~8PIN~14PIN~15PIN~150PIN~152PIN~154PIN~158PIN~161PIN~164PIN~167PIN~170PIN~177PIN~180PIN~193PIN	2V/DIV. 0.1uS/DIV	33PIN~88PIN
	27PIN~32PIN	0.1V/DIV. 0.5uS/DIV	92PIN~94PIN
	30PIN	0.2V/DIV. 10uS/DIV	124PIN
	31PIN~35PIN~38PIN~40PIN~43PIN~45PIN~47PIN~49PIN~51PIN~54PIN~57PIN~59PIN~62PIN~64PIN~67PIN~69PIN~89PIN~203PIN~204PIN~207PIN	2V/DIV. 20uS/DIV	196PIN

The following symbols are shown on the schematic diagram.

5V	5V
3V	3V
1.8V	1.8V
	VISUAL

15 SCHEMATIC DIAGRAM

15.1. Main/ESC Block